

NAVAL HEALTH RESEARCH CENTER

TECHNICAL MANUAL FOR THE NAVY COMPUTER ASSISTED MEDICAL DIAGNOSIS KNOWLEDGE BASE EDITOR (NCAMD-KBE)

Version 1.0.

H. L. Ly

D. M. Pearsall

DTIC QUALITY INSPECTED 4

19961004 067

Technical Document 96-4D

Approved for public release: distribution unlimited.



NAVAL HEALTH RESEARCH CENTER
P. O. BOX 85122
SAN DIEGO, CALIFORNIA 92186 - 5122

NAVAL MEDICAL RESEARCH AND DEVELOPMENT COMMAND
BETHESDA, MARYLAND

Technical Manual for the
Navy Computer Assisted Medical Diagnosis Knowledge
Base Editor (NCAMD-KBE), Version 1.0.

Prepared by:

Hoa L. Ly
Dianna M. Pearsall

Naval Health Research Center
Medical Information Systems and
Operations Research Department
P.O. Box 85122
San Diego, CA 92186-5122

Technical Document 96-4D supported by the Naval Medical Research and Development Command, Bethesda, MD, Department of the Navy, under Work Unit No. 63706N M0095.005-6103. The views expressed in this article are those of the authors and do not reflect the official policy or position of the Department of the Navy, Department of Defense, nor the U.S. Government.

SUMMARY

This technical manual contains the information on the program source code, data elements, and the database structure needed to maintain the Navy Computer Assisted Medical Diagnosis Knowledge Base Editor (NCAMD-KBE). This documentation was created using the FOXDOC Version 2.5a program.

TABLE OF CONTENTS

Introduction	1
Section I. System Summary	1
Section II. Menu File Summary	2
Section III. Screen Summary	2
A. BACKUP.SCX	2
B. KBDEL.SCX	3
C. KB.SCX	4
D. QUAL.SCX	5
E. GOAL.SCX	6
F. DISPLAY.SCX	7
G. DISEASE.SCX	8
H. ACTION.SCX	9
I. ACTELSE.SCX	9
J. CLAUSE.SCX	11
K. RULE.SCX	12
M. OBJECT.SCX	14
N. ENUM.SCX	14
O. RESTORE.SCX	15
P. DD.SCX	16
Q. PLAN.SCX	17
R. DICT.SCX	18
S. KBEDIT.SCX	19
T. OBLIST.SCX	20
U. DDEDIT.SCX	21
V. DDENUM.SCX	22
W. KBLOAD.SCX	23
Section IV. Data Dictionary	24
A. Knowledge Base Structure	24
B. Database Structure Summary	25
C. Database Field Summary	31
Section V. Tree Diagram	33
Section VI. Procedure and Function Summary	40
Section VII. Program Source Code	54

Introduction

This document is the technical guide for the Knowledge Base Editor within the Navy Computer Assisted Medical Diagnosis (NCAMD) System. FoxDoc Version 2.5a was used to generate the program code in Section VII. This technical manual describes the knowledge base data structures and reviews the diagnostic algorithm and data flows. It contains seven sections:

1. System Summary
2. Menu Summary
3. Screen Summary
4. Data Dictionary
5. Tree Diagram
6. Procedure Summary
7. Source Code Program Listing

Section I. System Summary. See the tree diagram in Section V for programs, procedures, functions, and file formats.

This system has:

13520 lines of code
1 program file
32 procedure files
178 procedures and functions
16 table/dbfs
17 index files
1 menu file
23 screen files
2 other files
612 cross-referenced tokens

Section II. Menu File Summary. The system has one menu:
KBMENU.MNX.

MENU OPTIONS	MENU OPTION IDENTIFIERS
System Help F1 ----- Backup Restore Knowledge Base Knowledge Base Area Question - Data Dictionary Exit system	System_MST_HELP KNOWLEDGEB

Section III. Screen Summary. The system has twenty three (23) screen files: BACKUP, KB, KBDEL, QUAL, GOAL, DISPLAY, DISEASE, ACTION, ACTELSE, CLAUSE, RULE, TERM, OBJECT, ENUM, RESTORE, DD, PLAN, DICT, KBEDIT, OBLIST, DDEDIT, DDENUM, and KBLOAD.

A. BACKUP.SCX

Last updated: 10/03/94 at 15:01

0	2: message.....	
1		
2		
3	5: mfile.....	To drive:.. 1: mdrive.....
4	.....
5	.....
6	.....	Directory: 3: mpath.....
7	.....
8	.....
9	.....	«Backup»
10	.....	<Cancel>
11	.....
12		
13		
14	Backup file name:..6: mfname.....	

Window name: W_backup
Coordinates: FROM 0,0 TO 0,60
Window options: FLOAT CLOSE MINIMIZE SHADOW

Name	Type	Picture
1: mdrive	Popup	"@^ "
2: message	Field	
3: mpath	Popup	"@^ "
4: maction	Push button	"@*HT \!\<Backup;\<Cancel"
5: mfile	List	"@&N"
6: mfname	Field	
7: mdrive	Popup	"@^ "
8: message	Field	
9: mpath	Popup	"@^ "
10: maction	Push button	"@*VT \!\<Backup;\<Cancel"
11: mfile	List	"@&N"
12: mfname	Field	

B. KBDEL.SCX

Last updated: 10/03/94 at 15:01

Knowledge Base Delete

```

0
1 Delete: 2: name.....
2
3
4      < OK > <Cancel>

```

Name	Type	Picture
1: mbutton	Push button	"@*HT OK;Cancel"
2: area.name	Field	
3: mbutton	Push button	"@*HT OK;Cancel"
4: area.name	Field	

C. KB.SCX

Last updated: 10/03/94 at 15:01

0				
1	<Knowledge Base> 5: name.....			
2				< Next >
3	Display thresholds	Rules 6: r		< Previous >
4		[] DIAGNOSIS		< Browse >
5	Consider 2: thr			<Qualifiers >
6		Inference 8: mpop2..		< Goals >
7	Probable 3: pro			<Conclusion >
8		Confidence 7: mpop...		
9	Likely 4: lik			
10				
11				
12				
13				
14	< Add >	< Edit >	< Delete >	< OK > < Cancel >

Window name: W_kb

Coordinates: FROM 0,0 TO 0,74

Window options: FLOAT CLOSE MINIMIZE SHADOW

Name	Type	Picture
1: mbuttons	Push button	"@*HN
2: mbbbuttons	Push button	"@*VN
3: m.areaname	Field	
4: m.threshold	Field	
5: m.probable	Field	
6: m.likely	Field	
7: m.rules	Field	
8: m.isdiag	Check box	"@*C DIAGNOSIS"
9: m.mpop	Popup	"@^ BAYES;ADDITIVE"
10: m.mpop2	Popup	"@^ FORWARD;BACKWARD"
11: mbuttons	Push button	"@*HT
12: m.threshold	Field	
13: m.probable	Field	
14: m.likely	Field	
15: m.name	Field	
16: m.rules	Field	
17: m.mpop	Popup	"@^ BAYES;ADDITIVE"
18: m.mpop2	Popup	"@^ FORWARD;BACKWARD"
19: m.isdiag	Check box	"@*C DIAGNOSIS"
20: minvbutton	Push button	"@*HN \<Knowledge Base"
21: mbbbuttons	Push button	"@*VN

Qualifier Editor	
0	
1	2: mq.....
2	.....
3	.....
4	.....
5	.....
6	.....
7	.....
8	.....
9	.....
10	.....
11	.....
12	.....
13	
14	

< Add > <Delete> < OK > <Cancel>

Window name: W_qe

Coordinates: FROM 0,0 TO 12,57

Window options: FLOAT CLOSE MINIMIZE SHADOW

Name	Type	Picture
1: mbuttons	Push button	"@*HT \<Edit;\<Quit"
2: mq	List	"@&N"
3: mbuttons	Push button	"@*HN"
4: mq	List	"@&N"

Goal Object Editor	
0	
1	
2	2: mg.....
3	.....
4	.....
5	.....
6	.....
7	.....
8	.....
9	.....
10	.....
11	.....
12	.....
13	.....
14	
15	
16	

< Add > < OK > <Cancel>

Window name: W_goal

Coordinates: FROM 0,0 TO 13,63

Window options: FLOAT CLOSE MINIMIZE SHADOW

Name	Type	Picture
1: mbuttons	Push button	"@*HN \<Edit;\<Quit"
2: mg	List	"@&N"
3: mbuttons	Push button	"@*HN \<Add;\<OK;\<Cancel"
4: mg	List	"@&N"

Display Object Editor

0	
1	3: md.....
2	.....
3	.....
4	.....
5	.....
6	.....
7	.....
8	.....
9	.....
10	.....
11	.....
12	.....
13	
14	
15	

< Add > <Delete> < OK > <Cancel>

Window name: W_displ

Coordinates: FROM 0,0 TO 13,63

Window options: FLOAT CLOSE MINIMIZE SHADOW

Name	Type	Picture
1: mbuttons	Push button	"@*HT \<Edit;\<Quit"
2: md	List	"@&N"
3: mbuttons	Push button	"@*HT OK;Cancel"
4: mbutton	Push button	"@*HN Add;Delete"
5: md	List	"@&N"

Disease Object Editor		
0	Id	5: id Name 1: name.....
1	Description	
2		
3	2: descript.....	
4	.....
5	.....
6	.....
7	.....
8	.....
9	.....
10		
11	Treatment	
12		
13	3:treatment.....	
14	.....
15	.....
16	.....
17	.....
18	.....
19	.....
20		
21		< OK > <Cancel>

Window name: W_disease

Coordinates: FROM 0,0 TO 0,77

Window options: FLOAT CLOSE MINIMIZE SHADOW

Name	Type	Picture
1: m.id	Field	
2: m.name	Field	"@!"
3: m.descript	Field	
4: m.treatment	Field	
5: mbuttons	Push button	"@*HT \<OK;\<Cancel"
6: disease.name	Field	"@!"
7: disease.descript	Field	
8: disease.treatment	Field	
9: mbuttons	Push button	"@*HN \<OK;\<Cancel"
10: disease.id	Field	

H. ACTION.SCX

Last updated: 10/03/94 at 15:01

Action Editor

0		
1		< Edit >
2	4: ma.....	
3	.....	< Add >
4	.....
5	.....	<Delete>
6	.....
7	.....	< OK >
8	.....
9	.....	<Cancel>
10		

Window name: W_act

Coordinates: FROM 0,0 TO 9,75

Window options: FLOAT CLOSE MINIMIZE SHADOW

Name	Type	Picture
1: mbuttons	Push button	"@*VN \<Edit;\<Quit"
2: ma	List	"@&N"
3: mbuttons	Push button	"@*VT \<Delete;\<OK>"
4: mebutton	Push button	"@*VN \<Edit"
5: minsbutton	Push button	"@*VN \<Add"
6: ma	List	"@&N"

I. ACTELSE.SCX

Last updated: 10/03/94 at 15:01

Action (Else) Editor

0		
1		< Edit >
2	4: me.....	
3	.....	< Add >
4	.....
5	.....	<Delete>
6	.....
7	.....	< OK >
8	.....
9	.....	<Cancel>
10		

Window name: W_act
Coordinates: FROM 0,0 TO 9,75
Window options: FLOAT CLOSE MINIMIZE SHADOW

Name	Type	Picture
1: mbuttons	Push button	"@*VN \<Edit;\<Quit"
2: me	List	"@&N"
3: mbuttons	Push button	"@*VT \<Delete;\<OK>"
4: mebutton	Push button	"@*VN \<Edit"
5: minsbutton	Push button	"@*VN \<Add"
6: me	List	"@&N"

Clause Editor

0

1 Type < OK >

2

3 <Cancel>

4 <Object> 2: mobj.....

5

6

7 Operator

8

9 <Value>

10

11 1: val.....

12

13

14

15

16

17

18

Window name: W_clause

Coordinates: FROM 0,0 TO 0,67

Window options: FLOAT CLOSE MINIMIZE SHADOW

Name	Type	Picture
1: mbuttons	Push button	"@*VT \<OK;\<Cancel"
2: mtype	Popup	"@^ Qualifier;Goal"
3: mobj	Field	
4: m.op	Popup	"@^ <;<=;==;>=>;!=;="
5: m.val	Field	
6: m.val	Field	
7: mobj	Field	
8: m.op	Popup	"@^ <;<=;==;>=>;!=;="
9: mtype	Popup	"@^ Qualifier;Goal"
10: mbuttons	Push button	"@*VT \<OK;\<Cancel"

K. RULE.SCX

Last updated: 10/03/94 at 15:01

Rule Object Editor

0
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19

Rule 1: ru Salience 2: s

Explanation

5: explain.....

.....

.....

.....

.....

Note

6: note.....

.....

.....

.....

.....

< Add > < Delete > < Ok > < Cancel >

Window name: W_rule Window name: W_rule
Coordinates: FROM 0,0 TO 5,75
Window options: FLOAT CLOSE MINIMIZE SHADOW

Name	Type	Picture
1: m.rule	Field	
2: m.salience	Field	
3: m.buttons	Push button	"@*HT \<OK ;\<Cancel"
4: m.explain	Field	
5: m.note	Field	
6: m.rule	Field	
7: m.salience	Field	
8: m.button	Push button	"@*VN \<Add"
9: m.buttons	Push button	"@*HT
10: m.explain	Field	
11: m.note	Field	

L. TERM.SCX

Last updated: 10/03/94 at 15:01

Term Editor

0

6: mp.....

1

.....

2

.....

3

.....

4

.....

5

.....

6

.....

7

.....

8

.....

9

.....

10

.....

11

.....

12

.....

13

.....

14

.....

15

.....

16

.....

< Edit >

< AND >

< OR >

<Insert>

<Delete>

< OK >

<Cancel>

Window name: W_term
Coordinates: FROM 0,0 TO 16,75
Window options: FLOAT CLOSE MINIMIZE SHADOW

Name	Type	Picture
1: mp	List	"@&N"
2: mbuttons	Push button	"@*VN \<Edit;\<Quit"
3: mbuttons	Push button	"@*VT \<Del
4: mbutton	Push button	"@*VN \<AND"
5: morbutton	Push button	"@*VN \<OR"
6: mebutton	Push button	"@*VN \<Edit"
7: minsbutton	Push button	"@*VN \<Insert"
8: mp	List	"@&N"

M. OBJECT.SCX

Last updated: 10/03/94 at 15:01

Add New Object	
0	
1	
2	Type: <input checked="" type="checkbox"/> Subject <input type="checkbox"/> Disease
3	
4	<Object> 2: name.....
5	
6	ID# : 3: id
7	
8	< Ok > <Cancel>

Window name: Object

Coordinates: FROM 0,0 TO 0,53

Window options: FLOAT CLOSE MINIMIZE SHADOW

Name	Type	Picture
1: m.object	Radio button	"@*RHN Subject;Disease"
2: m.name	Field	
3: m.id	Field	
4: m.button	Push button	"@*HT \<OK;\<Cancel"
5: m.obj	Push button	"@*HN Object"
6: m.object	Radio button	"@*RHN Subject;Disease"
7: m.name	Field	
8: m.id	Field	
9: m.button	Push button	"@*HT \<OK;\<Cancel"
10: m.obj	Push button	"@*HN Object"

N. ENUM.SCX

Last updated: 10/03/94 at 15:01

Enumerated Type Editor	
0	Mutex 3
1	Enum 4: enumerate.....
2	Ord 2:
3	< Add > < OK > <Cancel>

Window name: W_genum

Coordinates: FROM 0,0 TO 0,70

Window options: FLOAT CLOSE MINIMIZE SHADOW

Name	Type	Picture
1: mbuttons	Push button	"@*HT OK;Cancel"
2: enum.ord	Field	
3: enum.mutex	Field	
4: enum.enumerate	Field	"@!"
5: mbbUTTON	Push button	"@*VN Add"
6: mbuttons	Push button	"@*HT OK;Cancel"
7: enum.ord	Field	
8: enum.mutex	Field	
9: enum.enumerate	Field	"@!"
10: mbbUTTON	Push button	"@*VN Add"

O. RESTORE.SCX

Last updated: 10/03/94 at 15:01

0 2: message.....
1
2
3 5: mfile.....
4
5
6
7
8
9
10
11
12
13
14 Restore file name:.6: mfname.....

From drive.: 1: mdrive.....

Directory: 3: mpath.....

«Restore»

<Cancel >

Window name: W_restore

Coordinates: FROM 0,0 TO 0,60

Window options: FLOAT CLOSE MINIMIZE SHADOW

Name	Type	Picture
1: mdrive	Popup	"@^ "
2: message	Field	
3: mpath	Popup	"@^ "
4: maction	Push button	"@*HT \!\<Restore;\<Cancel"
5: mfile	List	"@&N"
6: mfname	Field	
7: mdrive	Popup	"@^ "
8: message	Field	
9: mpath	Popup	"@^ "
10: maction	Push button	"@*VT \!\<Restore;\<Cancel"

```

11: mfile          List          "@&N"
12: mfname         Field

```

P. DD.SCX

Last updated: 10/03/94 at 15:01

Question - Data Dictionary

0	
1	
2	2: mg.....
3	.....
4	.....
5	.....
6	.....
7	.....
8	.....
9	.....
10	.....
11	.....
12	.....
13	.....
14	
15	
16	

< Edit > < Add > < Delete > < Quit >

Window name: W_

Coordinates: FROM 0,0 TO 0,60

Window options: FLOAT CLOSE MINIMIZE SHADOW

Name	Type	Picture
1: mbuttons	Push button	"@*HN \<Edit;\<Add;
2: mq	List	"@&N"

Goal Object Editor

0	
1	
2	2: mg.....
3	.....
4	.....
5	.....
6	.....
7	.....
8	.....
9	.....
10	.....
11	.....
12	.....
13	.....
14	
15	
16	< Add > < OK > <Cancel>

Window name: W_goal

Coordinates: FROM 0,0 TO 13,63

Window options: FLOAT CLOSE MINIMIZE SHADOW

Name	Type	Picture
1: mbuttons	Push button	"@*HN \<Add;\<OK;\<Cancel"
2: mg	List	"@&N"
3: mbuttons	Push button	"@*HN \<Add;\<OK;\<Cancel"
4: mg	List	"@&N"

Dictionary Editor

0 Id 1:... Name 2:name..... Type

1

2 Question Askable: 4:as

3

4 5:question.....

5

6

7

8 Enum

9

10 6:mp.....

11

12

13

14

15

16

17

18

19 val: width 7:width..... Decimals 8:dec..

20 Range: Hi 9: Hi..... Lo 10:lo.. Units 11: units

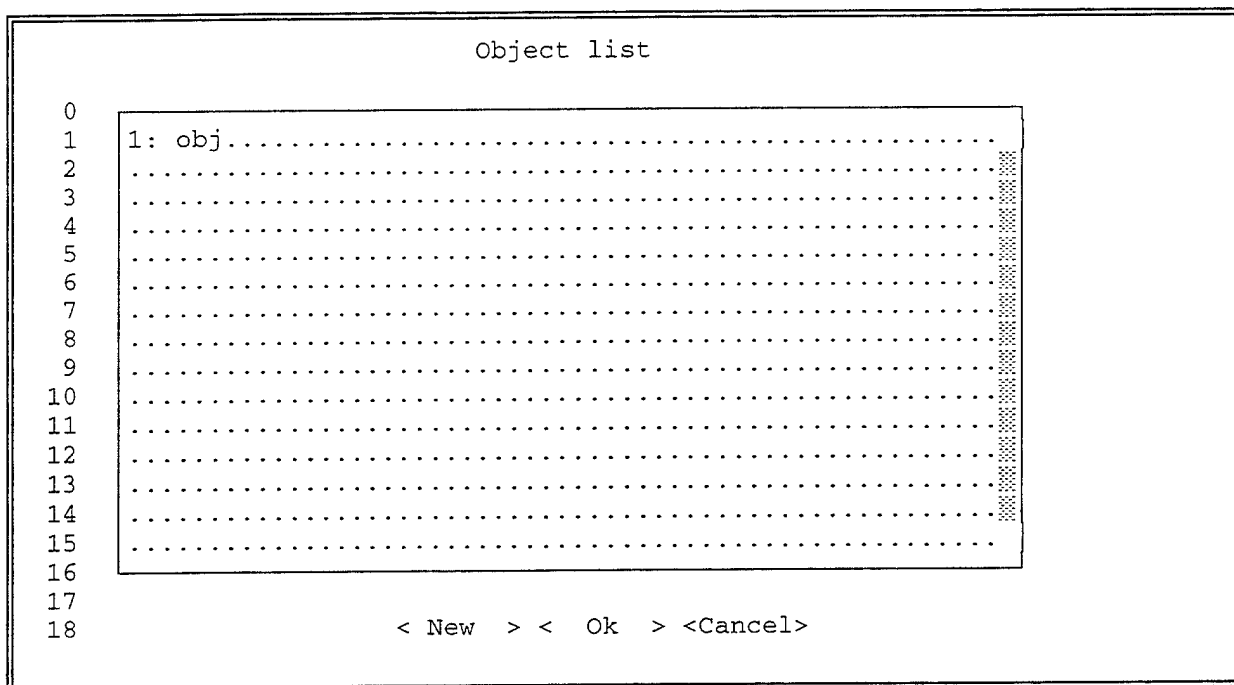
21

22 < OK > < CANCEL >

Name	Type	Picture
1: m.id	Field	
2: m.name	Field	
3: m.datatype	Popup	"@^ N;E;M;L"
4: dict.askable	Field	
5: m.question	Field	
6: mp	List	"@&N"
7: m.width	Field	
8: m.dec	Field	
9: m.hi	Field	
10: m.lo	Field	
11: m.units	Field	
12: mbuttons	Push button	"@*HT OK;Cancel"

Knowledge Base Rule Editor		
0	Knowledge Base: 1:areaname.....	< Next >
1	Rule: 2:Rule.....	
2	< IF: >	< Prev >
3		
4	4: mp.....	< Browse >
5	.....
6	.....	< Edit >
7		
8	< THEN: >	< eXit >
9		
10	6: ma.....	
11	.....
12	.....
13		
14	< ELSE: >	
15		
16	8: me.....	
17	.....
18	.....
19		
20	val: width 8: width..... Decimals 9: dec..	
21	Range: Hi 10: Hi..... Lo 11:lo.. Units 12: units	
22		
23	< OK > < CANCEL >	

Name	Type	Picture
1: m.areaname	Field	
2: rule.rule	Field	
3: minvprem	Push button	"@*HN \<IF:"
4: mp	List	"@&N"
5: minvact	Push button	"@*HN \<THEN:"
6: ma	List	"@&N"
7: minvelse	Push button	"@*HN \<ELSE:"
8: me	List	"@&N"
9: mbutton	Push button	"@*VN"



Window name: W_obj

Coordinates: FROM 0,0 TO 0,61

Window options: FLOAT CLOSE MINIMIZE SHADOW

Name	Type	Picture
1: m.obj	List	"@&N"
2: m.buttons	Push button	"@*HT \<New;\<Ok;\<Cancel"

Data Element Editor

0 Id 1:... Name 2:name..... Type

1

2 Use in rule

3

4 4. rulesuse.....

5

6

7

8 Question Askable: 5:as

9

10 6. question.....

11

12

13

14 Enum

15

16 7. mp.....

17

18

19

20 val: width 8: width..... Decimals 9: dec..

21 Range: Hi 10: Hi..... Lo 11:lo.. Units 12: units

22

23 < OK > < CANCEL >

Name	Type	Picture
1: m.id	Field	
2: m.name	Field	
3: m.datatype	Popup	"@^ N;E;M;L"
4: m.rulesuse	List	"@&N"
5: m.askable	Field	
6: m.question	Field	
7: mp	List	"@&N"
8: m.width	Field	
9: m.dec	Field	
10: m.hi	Field	
11: m.lo	Field	
12: m.units	Field	
13: mbuttons	Push button	"@*HT OK;Cancel"

V. DDENUM.SCX

Last updated: 10/03/94 at 15:01

```
0 Mutex 2:
1 Enum 3: enumerate.....
2 Ord 1:
3          < Add > < OK > <Cancel>
```

Name	Type	Picture
1: m.ord	Field	
2: m.mutex	Field	
3: m.enumerate	Field	"@!"
4: mbuttons	Push button	"@*HN Add;OK;Cancel"

0	
1	Read From Definition file:
2	1: src.....
3	
4	
5	Create Files in Temporary directory:
6	2: new.....
7	
8	3: dbf.....
9	.....
10	.....
11	.....
12	.....
13	.....
14	.....
15	

< Load >
 <Cancel>

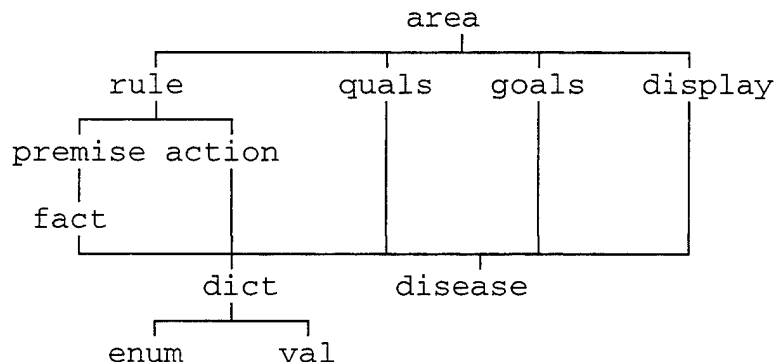
Name	Type	Picture
1: m.src	Field	
2: m.new	Field	
3: m.dbf	List	"@&N"
4: m.load	Push button	"@*VN Load"
5: mbuttonc	Push button	"@*VT Cancel"
6: m.src	Field	
7: m.new	Field	
8: m.dbf	List	"@&N"
9: m.load	Push button	"@*VT Load"
10: mbuttonc	Push button	"@*VT Cancel"

Section IV. Data Dictionary. The system contains 14 databases.

DICT.DBF	-- Data element dictionary
ACTION.DBF	-- List of action for each rule
DISEASE.DBF	-- Disease element dictionary
ENUM.DBF	-- List of values for enumerate types
HELP.DBF	-- Fox command help text
KBHELP.DBF	-- Knowledge Base Command help text
PREMISE.DBF	-- List of premises for each rule
RULE.DBF	-- List of qualifiers for each knowledge base
VAL.DBF	-- Attributes for each numeric type
AREA.DBF	-- Diagnostic area or knowledge base
GOALS.DBF	-- List of goals for each knowledge base
DISPLAY.DBF	-- List of qualifiers shown for each knowledge base
QUALS.DBF	-- List of qualifiers for each knowledge base
FACT.DBF	-- Factors in rule premises

A. Knowledge Base Structure (relationship of database)

The following chart shows the structure of the knowledge base. This structure is used to set up relationships between the database and knowledge base:



Important facts about the knowledge base include:

The **AREA** file is the primary parent of all other files, as it relates to the inference engine. Therefore, selecting an area or knowledge base, means that the associated set of rules, qualifiers, goals and displays is also selected.

The **RULE** file is the parent of the **PREMISE** and **ACTION** files. Therefore, selecting a **RULE**, means that a set of **PREMISE** and **ACTION** clauses is also selected for that rule. The inference engine can select a particular rule and then retrieve corresponding **PREMISE** and **ACTION** clauses from the

child files. Since the RULE:PREMISE and RULE:ACTION relationships are one-to-many, several PREMISE and ACTION clauses can be associated with one rule.

The **PREMISE** file is the parent of the FACT file. Therefore, selecting a premise means that a set of fact clauses is also selected for that premise. When the inference engine evaluates a rule premise, it can retrieve the corresponding FACT clauses from the child file.

The **DICTIONARY** and **DISEASE** files are the children files of several of the knowledge base tables, including the QUALS, GOALS, DISPLAY, FACT, and ACTION files. The DICTIONARY and DISEASE files therefore play a central role in the knowledge base structure. These are the repositories for the basic data element definitions that are used in many places throughout the knowledge base.

The **DICTIONARY** file is the parent of the ENUM and VAL files. Each DICTIONARY element can have several ENUM entries associated with it, since this is a one-to-many relationship. Each DICTIONARY element can have one VAL entry associated with it, since this is a one-to-one relationship.

B. Database Structure Summary.

1. Structure for table/dbf: **DICTIONARY.DBF**

Number of data records : 256 Last updated : 06/17/93

Field	Field name	Type	Width	Dec	Start	End
1	ID	Numeric	4	0	1	4
2	NAME	Character	80	0	5	84
3	ALIAS	Character	20	0	85	104
4	DATATYPE	Character	1	0	105	105
5	ASKABLE	Logical	1	0	106	106
6	QUESTION	Character	100	0	107	206
7	PROMPT	Character	80	0	207	286
8	META	Logical	1	0	287	287
** Total **			288			

This table/dbf is associated with index file/tag(s):

: DICTIONARY.IDX (ID)
: DICTIONARY.NAME.IDX (NAME)

Used by: KB.SPR and DD.SPR

2. Structure for table/dbf: **DISEASE.DBF**

Number of data records : 51 Last updated : 06/10/93

Field	Field name	Type	Width	Dec	Start	End
-------	------------	------	-------	-----	-------	-----

1	ID	Numeric	5	0	1	5
2	NAME	Character	80	0	6	85
3	ALIAS	Character	20	0	86	105
4	DESCRIPT	Memo	10	0	106	115
5	TREATMENT	Memo	10	0	116	125
6	BRIEF	Memo	10	0	126	135
** Total **			136			

This table/dbf is associated with the memo file: DISEASE.FPT

This table/dbf is associated with index file/tag(s):

: DISID.IDX (ID)

: DISEASE.IDX (NAME)

Used by: KB.SPR

3. Structure for table/dbf: **ACTION.DBF**

Number of data records : 2344 Last updated : 01/12/93

Field	Field name	Type	Width	Dec	Start	End
1	CLAUSE	Numeric	5	0	1	5
2	OP	Character	2	0	6	7
3	OBJECT	Character	1	0	8	8
4	ID	Numeric	5	0	9	13
5	TAG	Character	1	0	14	14
6	VAL	Character	10	0	15	24
7	TEXT	Memo	10	0	25	34
** Total **			35			

This table/dbf is associated with the memo file: ACTION.FPT

This table/dbf appears to be associated with index file/tag(s):

: ACTION.IDX (CLAUSE)

Used by: KBLDR.PRG, KBDELETE.PRG, and KBEDIT.SPR

4. Structure for table/dbf: **ENUM.DBF**

Number of data records : 698 Last updated : 06/07/93

Field	Field name	Type	Width	Dec	Start	End
1	ID	Numeric	4	0	1	4
2	ORD	Numeric	2	0	5	6
3	MUTEX	Character	1	0	7	7
4	ENUMERATE	Character	80	0	8	87
5	REPORT	Character	80	0	88	167
** Total **			168			

This table/dbf appears to be associated with index file/tag(s):

: ENUM.IDX (ID)

Used by: KB.SPR and DD.SPR

5. Structure for table/dbf: **HELP.DBF**

Number of data records : 147 Last updated : 09/17/93

Field	Field name	Type	Width	Dec	Start	End
-------	------------	------	-------	-----	-------	-----

1	TOPIC	Character	80	0	1	80
2	DETAILS	Memo	10	0	81	90
3	CLASS	Character	20	0	91	110
4	ID	Numeric	5	0	111	115
5	SOURCE	Character	1	0	116	116
** Total **			117			

This table/dbf is associated with the memo file: HELP.FPT

6. Structure for table/dbf: **KBHELP.DBF** Alias: HELP
 Number of data records : 20 Last updated : 05/29/92

Field	Field name	Type	Width	Dec	Start	End
1	TOPIC	Character	30	0	1	30
2	DETAILS	Memo	10	0	31	40
3	CLASS	Character	20	0	41	60
4	ID	Numeric	5	0	61	65
5	SOURCE	Character	1	0	66	66
** Total **			67			

This table/dbf is associated with the memo file: KBHELP.FPT
 Used by: KBLDR.PRG

7. Structure for table/dbf: **PREMISE.DBF**
 Number of data records : 1809 Last updated : 01/12/93

Field	Field name	Type	Width	Dec	Start	End
1	CLAUSE	Numeric	5	0	1	5
2	OP	Character	1	0	6	6
3	FACT	Numeric	5	0	7	11
4	FACTR	Numeric	5	0	12	16
** Total **			17			

This table/dbf appears to be associated with index file/tag(s):
 : PREMISE.IDX (CLAUSE)
 Used by: KBLDR.PRG, KBDELETE.PRG, and KBEDIT.SPR

8. Structure for table/dbf: **RULE.DBF**
 Number of data records : 564 Last updated : 06/01/93

Field	Field name	Type	Width	Dec	Start	End
1	RULE	Numeric	5	0	1	5
2	AREA	Numeric	4	0	6	9
3	SALIENCE	Numeric	3	0	10	12
4	PREMISE	Numeric	5	0	13	17
5	ACTION	Numeric	5	0	18	22
6	ELSE	Numeric	5	0	23	27
7	QUALS	Memo	10	0	28	37
8	GOALS	Memo	10	0	38	47
9	NOTE	Memo	10	0	48	57
10	EXPLAIN	Memo	10	0	58	67
** Total **			68			

This table/dbf is associated with the memo file: RULE.FPT
 This table/dbf appears to be associated with index file/tag(s):
 : RULEAREA.IDX (AREA)
 : SALIENCE.IDX (SALIENCE)
 : RULE.IDX (RULE)
 Used by: KBLDR.PRG, KBDELETE.PRG, and KBEDIT.SPR

9. Structure for table/dbf: **VAL.DBF**

Number of data records : 19 Last updated : 04/29/93

Field	Field name	Type	Width	Dec	Start	End
1	ID	Numeric	4	0	1	4
2	WIDTH	Numeric	2	0	5	6
3	DEC	Numeric	1	0	7	7
4	LO	Numeric	9	2	8	16
5	HI	Numeric	9	2	17	25
6	UNITS	Character	10	0	26	35
** Total **			36			

This table/dbf appears to be associated with index file/tag(s):

: VAL.IDX (ID)

Used by: KB.SPR and DD.SPR

10. Structure for table/dbf: **AREA.DBF**

Number of data records : 4 Last updated : 06/17/93

Field	Field name	Type	Width	Dec	Start	End
1	AREA	Numeric	4	0	1	4
2	NAME	Character	30	0	5	34
3	INFERENCE	Numeric	1	0	35	35
4	METHOD	Numeric	1	0	36	36
5	ISDIAG	Numeric	1	0	37	37
6	SIGNON	Character	30	0	38	67
7	START	Character	30	0	68	97
8	FINISH	Character	30	0	98	127
9	THRESHOLD	Numeric	6	2	128	133
10	PROBABLE	Numeric	6	2	134	139
11	LIKELY	Numeric	6	2	140	145
12	RULES	Numeric	4	0	146	149
** Total **			150			

This table/dbf appears to be associated with index file/tag(s):

: AREA.IDX (AREA)

Used by: KB.SPR and DD.SPR

11. Structure for table/dbf: **GOALS.DBF**

Number of data records : 89 Last updated : 05/11/93

Field	Field name	Type	Width	Dec	Start	End
1	AREA	Numeric	4	0	1	4
2	OBJECT	Character	1	0	5	5
3	ID	Numeric	5	0	6	10
** Total **			11			

This table/dbf appears to be associated with index file/tag(s):

: GOALS.IDX (ID)

Used by: KB.SPR and DD.SPR

12. Structure for table/dbf: **DISPLAY.DBF**

Number of data records : 5 Last updated : 12/07/92

Field	Field name	Type	Width	Dec	Start	End
1	AREA	Numeric	5	0	1	5
2	ID	Numeric	5	0	6	10
3	OBJECT	Character	1	0	11	11
** Total **			12			

This table/dbf is not associated with index files/tags(s).
Used by: KB.SPR

13. Structure for table/dbf: **QUALS.DBF**

Number of data records : 292 Last updated : 01/12/93

Field	Field name	Type	Width	Dec	Start	End
1	AREA	Numeric	4	0	1	4
2	OBJECT	Character	1	0	5	5
3	ID	Numeric	5	0	6	10
4	RULES	Memo	10	0	11	20
5	RULESO	Memo	10	0	21	30
** Total **			31			

This table/dbf is associated with the memo file: QUALS.FPT
This table/dbf appears to be associated with index file/tag(s):
: QUALS.IDX (ID)
Used by: KB.SPR and DD.SPR

14. Structure for table/dbf: **FACT.DBF**

Number of data records : 1223 Last updated : 01/12/93

Field	Field name	Type	Width	Dec	Start	End
1	CLAUSE	Numeric	5	0	1	5
2	OP	Character	2	0	6	7
3	OBJECT	Character	1	0	8	8
4	ID	Numeric	5	0	9	13
5	TAG	Character	1	0	14	14
6	VAL	Character	10	0	15	24
7	TEXT	Memo	10	0	25	34
** Total **			35			

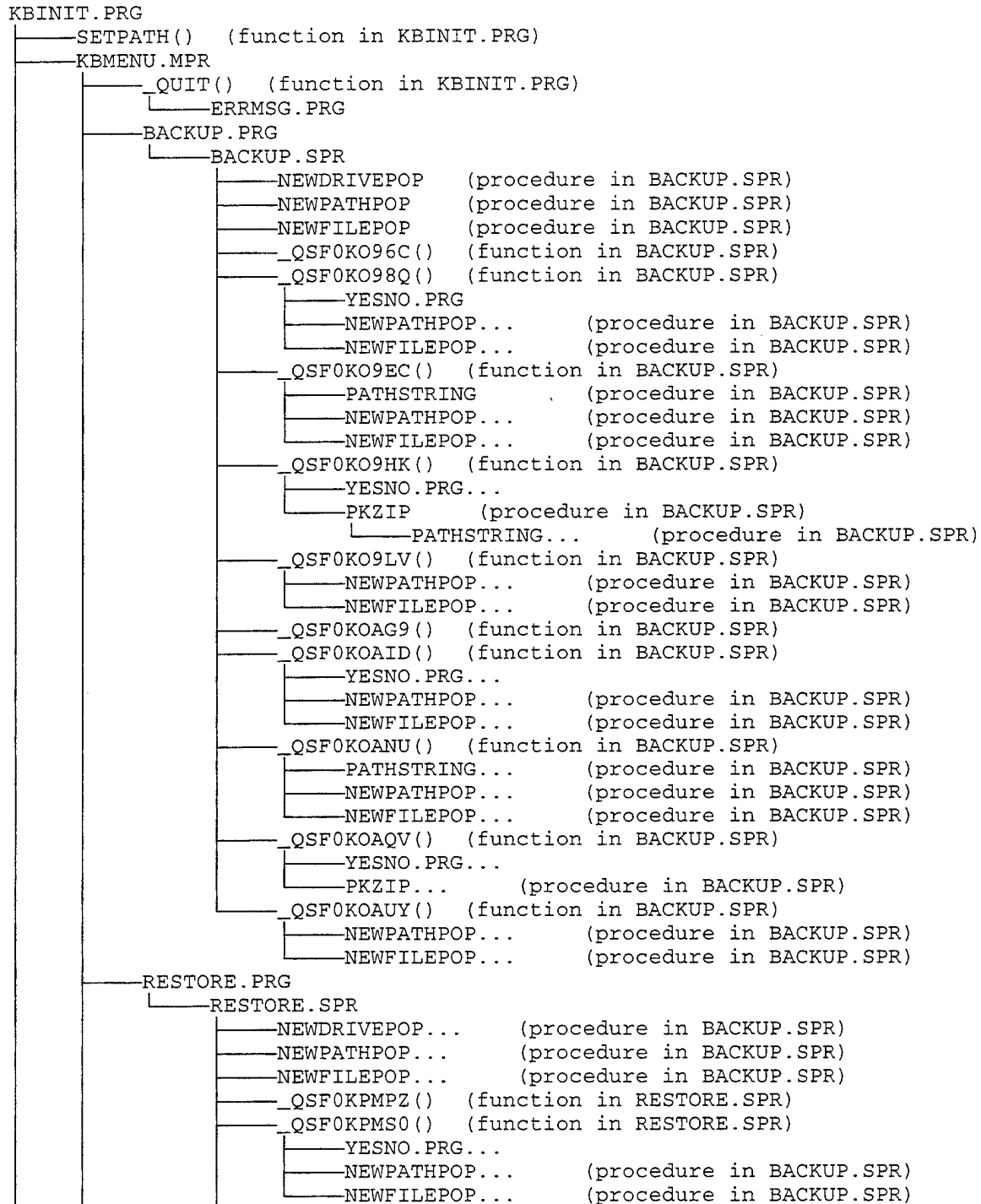
This table/dbf is associated with the memo file: FACT.FPT
This table/dbf appears to be associated with index file/tag(s):
: FACT.IDX (CLAUSE)
Used by: KBLDR.PRG, KBDELETE.PRG, and KBEDIT.SPR

C. Database Field Summary

Field Name	Type	Len	Dec	Table/DBF
ACTION	N	5	0	RULE.DBF
ALIAS	C	20	0	DICT.DBF
ALIAS	C	20	0	DISEASE.DBF
AREA	N	4	0	AREA.DBF
AREA	N	5	0	DISPLAY.DBF
AREA	N	4	0	GOALS.DBF
AREA	N	4	0	QUALS.DBF
AREA	N	4	0	RULE.DBF
ASKABLE	L	1	0	DICT.DBF
BRIEF	M	10	0	DISEASE.DBF
CLASS	C	20	0	HELP.DBF
CLASS	C	20	0	KBHELP.DBF
CLAUSE	N	5	0	ACTION.DBF
CLAUSE	N	5	0	FACT.DBF
CLAUSE	N	5	0	PREMISE.DBF
DATATYPE	C	1	0	DICT.DBF
DEC	N	1	0	VAL.DBF
DESCRIPT	M	10	0	DISEASE.DBF
DETAILS	M	10	0	HELP.DBF
DETAILS	M	10	0	KBHELP.DBF
ELSE	N	5	0	RULE.DBF
ENUMERATE	C	80	0	ENUM.DBF
EXPLAIN	M	10	0	RULE.DBF
FACT	N	5	0	PREMISE.DBF
FACTR	N	5	0	PREMISE.DBF
FINISH	C	30	0	AREA.DBF
GOALS	M	10	0	RULE.DBF
HI	N	9	2	VAL.DBF
ID	N	5	0	ACTION.DBF
ID	N	4	0	DICT.DBF
ID	N	5	0	DISEASE.DBF
ID	N	5	0	DISPLAY.DBF
ID	N	4	0	ENUM.DBF
ID	N	5	0	FACT.DBF
ID	N	5	0	GOALS.DBF
ID	N	5	0	HELP.DBF
ID	N	5	0	KBHELP.DBF
ID	N	5	0	QUALS.DBF
ID	N	4	0	VAL.DBF
INFERENCE	N	1	0	AREA.DBF
ISDIAG	N	1	0	AREA.DBF
LIKELY	N	6	2	AREA.DBF
LO	N	9	2	VAL.DBF

META	L	1	0	DICT.DBF
METHOD	N	1	0	AREA.DBF
MUTEX	C	1	0	ENUM.DBF
<u>Field Name</u>	<u>Type</u>	<u>Len</u>	<u>Dec</u>	<u>Table/DBF</u>
NAME	C	30	0	AREA.DBF
NAME	C	80	0	DICT.DBF
NAME	C	80	0	DISEASE.DBF
NOTE	M	10	0	RULE.DBF
OBJECT	C	1	0	ACTION.DBF
OBJECT	C	1	0	DISPLAY.DBF
OBJECT	C	1	0	FACT.DBF
OBJECT	C	1	0	GOALS.DBF
OBJECT	C	1	0	QUALS.DBF
OP	C	2	0	ACTION.DBF
OP	C	2	0	FACT.DBF
OP	C	1	0	PREMISE.DBF
ORD	N	2	0	ENUM.DBF
PREMISE	N	5	0	RULE.DBF
PROBABLE	N	6	2	AREA.DBF
PROMPT	C	80	0	DICT.DBF
QUALS	M	10	0	RULE.DBF
QUESTION	C	100	0	DICT.DBF
REPORT	C	80	0	ENUM.DBF
RULE	N	5	0	RULE.DBF
RULES	N	4	0	AREA.DBF
RULES	M	10	0	QUALS.DBF
RULESO	M	10	0	QUALS.DBF
SALIENCE	N	3	0	RULE.DBF
SIGNON	C	30	0	AREA.DBF
SOURCE	C	1	0	HELP.DBF
SOURCE	C	1	0	KBHELP.DBF
START	C	30	0	AREA.DBF
TAG	C	1	0	ACTION.DBF
TAG	C	1	0	FACT.DBF
TEXT	M	10	0	ACTION.DBF
TEXT	M	10	0	FACT.DBF
THRESHOLD	N	6	2	AREA.DBF
TOPIC	C	80	0	HELP.DBF
TOPIC	C	30	0	KBHELP.DBF
TREATMENT	M	10	0	DISEASE.DBF
UNITS	C	10	0	VAL.DBF
VAL	C	10	0	ACTION.DBF
VAL	C	10	0	FACT.DBF
WIDTH	N	2	0	VAL.DBF

Section V. Tree Diagram. The tree diagram shows the correlate among the function and procedure. The diagram lists each program in the order in which it is used. Each program has a list of all functions called and where the procedure/function is stored.



- _QSF0KPMXI() (function in RESTORE.SPR)
 - PATHSTRING... (procedure in BACKUP.SPR)
 - NEWPATHPOP... (procedure in BACKUP.SPR)
 - NEWFILEPOP... (procedure in BACKUP.SPR)
- _QSF0KPN0J() (function in RESTORE.SPR)
 - PKUNZIP (procedure in RESTORE.SPR)
 - PATHSTRING... (procedure in BACKUP.SPR)
- _QSF0KPN3T() (function in RESTORE.SPR)
 - NEWPATHPOP... (procedure in BACKUP.SPR)
 - NEWFILEPOP... (procedure in BACKUP.SPR)
- _QSF0KPN7E() (function in RESTORE.SPR)
- _QSF0KPNY5() (function in RESTORE.SPR)
- _QSF0KPO0A() (function in RESTORE.SPR)
 - YESNO.PRG...
 - NEWPATHPOP... (procedure in BACKUP.SPR)
 - NEWFILEPOP... (procedure in BACKUP.SPR)
- _QSF0KPO5T() (function in RESTORE.SPR)
 - PATHSTRING... (procedure in BACKUP.SPR)
 - NEWPATHPOP... (procedure in BACKUP.SPR)
 - NEWFILEPOP... (procedure in BACKUP.SPR)
- _QSF0KPO8T() (function in RESTORE.SPR)
 - PKUNZIP... (procedure in RESTORE.SPR)
- _QSF0KPOBY() (function in RESTORE.SPR)
 - NEWPATHPOP... (procedure in BACKUP.SPR)
 - NEWFILEPOP... (procedure in BACKUP.SPR)
- _QSF0KPOFG() (function in RESTORE.SPR)
- KB.SPR
 - SETQUALS (procedure in KB.SPR)
 - SETGOALS (procedure in KB.SPR)
 - SETDISPLAY (procedure in KB.SPR)
 - _QSF0KOFX9() (function in KB.SPR)
 - KBLOAD.SPR
 - _QSF0KQBNK() (function in KBLOAD.SPR)
 - LOADOK (procedure in KBLOAD.SPR)
 - _QSF0KQBT0() (function in KBLOAD.SPR)
 - LOADOK... (procedure in KBLOAD.SPR)
 - _QSF0KQC1J() (function in KBLOAD.SPR)
 - LOADOK... (procedure in KBLOAD.SPR)
 - _QSF0KQC42() (function in KBLOAD.SPR)
 - LOADOK... (procedure in KBLOAD.SPR)
 - LOADOK... (procedure in KBLOAD.SPR)
 - _QSF0KQC6T() (function in KBLOAD.SPR)
 - CHECKFILE() (function in KBLOAD.SPR)
 - YESNO.PRG...
 - POPUPSHOW() (function in KBINIT.PRG)
 - KBLDR.PRG
 - POPUPHIDE() (function in KBINIT.PRG)
 - _QSF0KQCP2() (function in KBLOAD.SPR)
 - LOADOK... (procedure in KBLOAD.SPR)
 - _QSF0KQCRO() (function in KBLOAD.SPR)
 - LOADOK... (procedure in KBLOAD.SPR)
 - _QSF0KQCUA() (function in KBLOAD.SPR)
 - LOADOK... (procedure in KBLOAD.SPR)
 - _QSF0KQCWT() (function in KBLOAD.SPR)
 - LOADOK... (procedure in KBLOAD.SPR)
 - _QSF0KQCZG() (function in KBLOAD.SPR)
 - KBLDR.PRG...

```

KBEDIT.SPR
├── SETPREM      (procedure in KBEDIT.SPR)
│   ├── SEMPTY() (function in KBEDIT.SPR)
│   ├── HLINK()  (function in KBEDIT.SPR)
│   └── VLINK()  (function in KBEDIT.SPR)
├── SETACT      (procedure in KBEDIT.SPR)
├── SETELSE     (procedure in KBEDIT.SPR)
├── SETACTION() (function in KBEDIT.SPR)
├── _QSF0KQ0SA() (function in KBEDIT.SPR)
└── TERM.SPR
    ├── ADDFACT() (function in TERM.SPR)
    │   └── CLAUSE.SPR
    │       ├── SETOBJECT() (function in CLAUSE.SPR)
    │       ├── _QSF0KP3SZ() (function in CLAUSE.SPR)
    │       ├── _QSF0KP3X2() (function in CLAUSE.SPR)
    │       ├── _QSF0KP435() (function in CLAUSE.SPR)
    │       ├── _QSF0KP472() (function in CLAUSE.SPR)
    │       ├── INSNEWID() (function CLAUSE.SPR)
    │       │   └── DP.PRG
    │       ├── _QSF0KP5HS() (function in CLAUSE.SPR)
    │       ├── _QSF0KP5LZ() (function in CLAUSE.SPR)
    │       ├── _QSF0KP5Q1() (function in CLAUSE.SPR)
    │       └── _QSF0KP5UC() (function in CLAUSE.SPR)
    ├── SETPREM... (procedure in KBEDIT.SPR)
    ├── _QSF0KPC3R() (function in TERM.SPR)
    │   └── EDPREM      (procedure in TERM.SPR)
    │       ├── CLAUSE.SPR...
    │       └── SETPREM... (procedure in KBEDIT.SPR)
    ├── _QSF0KPC6D() (function in TERM.SPR)
    │   └── EDPREM... (procedure in TERM.SPR)
    ├── _QSF0KPCPM() (function in TERM.SPR)
    ├── _QSF0KPCU9() (function in TERM.SPR)
    │   └── SETJOIN() (function in TERM.SPR)
    │       └── SETPREM... (procedure in KBEDIT.SPR)
    ├── _QSF0KPCWU() (function in TERM.SPR)
    │   └── SETJOIN() ... (function in TERM.SPR)
    ├── _QSF0KPCZG() (function in TERM.SPR)
    │   └── EDPREM... (procedure in TERM.SPR)
    ├── _QSF0KPD1Z() (function in TERM.SPR)
    │   └── ADDFACT() ... (function in TERM.SPR)
    ├── _QSF0KPD51() (function in TERM.SPR)
    │   └── EDPREM... (procedure in TERM.SPR)
    ├── SETPREM... (procedure in KBEDIT.SPR)
    ├── _QSF0KQ0WK() (function in KBEDIT.SPR)
    └── ACTION.SPR
        └── ERRMSG.PRG...

```

```

      _QSF0K0X5V() (function in ACTION.SPR)
      |
      |---EDACT (procedure in ACTION.SPR)
      |   |
      |   |---CLAUSE.SPR...
      |   |---SETACT... (procedure in KBEDIT.SPR)
      |
      |---_QSF0K0X9D() (function in ACTION.SPR)
      |   |
      |   |---EDACT... (procedure in ACTION.SPR)
      |   |
      |   |---ADDNEWACT() (function in ACTION.SPR)
      |   |   |
      |   |   |---CLAUSE.SPR...
      |   |   |---SETACT... (procedure in KBEDIT.SPR)
      |   |
      |   |---_QSF0K0XVA() (function in ACTION.SPR)
      |   |
      |   |---_QSF0K0Y50() (function in ACTION.SPR)
      |   |   |
      |   |   |---EDACT... (procedure in ACTION.SPR)
      |   |   |
      |   |   |---_QSF0K0Y8A() (function in ACTION.SPR)
      |   |   |   |
      |   |   |   |---CLAUSE.SPR...
      |   |   |   |---SETACT... (procedure in KBEDIT.SPR)
      |   |   |
      |   |   |---_QSF0K0YCP() (function in ACTION.SPR)
      |   |   |   |
      |   |   |   |---EDACT... (procedure in ACTION.SPR)
      |   |
      |   |---_QSF0KQ10R() (function in KBEDIT.SPR)
      |   |   |
      |   |   |---ACTELSE.SPR
      |   |   |   |
      |   |   |   |---ERRMSG.PRG...
      |   |   |   |---_QSF0KP07D() (function in ACTELSE.SPR)
      |   |   |   |   |
      |   |   |   |   |---EDELSE (procedure in ACTELSE.SPR)
      |   |   |   |   |   |
      |   |   |   |   |   |---CLAUSE.SPR...
      |   |   |   |   |   |---SETELSE... (procedure in KBEDIT.SPR)
      |   |   |   |
      |   |   |   |---_QSF0KP0AR() (function in ACTELSE.SPR)
      |   |   |   |   |
      |   |   |   |   |---EDELSE... (procedure in ACTELSE.SPR)
      |   |   |   |
      |   |   |   |---ADDNEWELSE() (function in ACTELSE.SPR)
      |   |   |   |   |
      |   |   |   |   |---CLAUSE.SPR...
      |   |   |   |   |---SETELSE... (procedure in KBEDIT.SPR)
      |   |   |   |
      |   |   |   |---_QSF0KP0S3() (function in ACTELSE.SPR)
      |   |   |   |
      |   |   |   |---_QSF0KP0W3() (function in ACTELSE.SPR)
      |   |   |   |   |
      |   |   |   |   |---EDELSE... (procedure in ACTELSE.SPR)
      |   |   |   |
      |   |   |   |---_QSF0KP0YP() (function in ACTELSE.SPR)
      |   |   |   |   |
      |   |   |   |   |---ADDNEWELSE() ... (function in ACTELSE.SPR)
      |   |   |   |   |   |
      |   |   |   |   |   |---CLAUSE.SPR...
      |   |   |   |   |   |---SETELSE... (procedure in KBEDIT.SPR)
      |   |   |   |
      |   |   |   |---_QSF0KPI3M() (function in ACTELSE.SPR)
      |   |   |   |   |
      |   |   |   |   |---EDELSE... (procedure in ACTELSE.SPR)
      |   |   |
      |   |   |---SETELSE... (procedure in KBEDIT.SPR)
      |   |
      |   |---_QSF0KQ14Z() (function in KBEDIT.SPR)
      |   |   |
      |   |   |---RULE.SPR
      |   |   |   |
      |   |   |   |---_QSF0KP97Y() (function in RULE.SPR)
      |   |   |   |---_QSF0KPA3B() (function in RULE.SPR)
      |   |   |   |---_QSF0KPA7J() (function in RULE.SPR)
      |   |   |   |   |
      |   |   |   |   |---YESNO.PRG...
      |   |   |
      |   |   |---SETPREM... (procedure in KBEDIT.SPR)
      |   |   |---SETACT... (procedure in KBEDIT.SPR)
      |   |   |---SETELSE... (procedure in KBEDIT.SPR)
      |   |   |---SETACTION() ... (function in KBEDIT.SPR)
      |
      |---KBDEL.SPR
      |   |
      |   |---_QSF0K0KEU() (function in KBDEL.SPR)
      |   |   |
      |   |   |---KBDELETE.PRG
      |   |   |
      |   |   |---_QSF0K0KPT() (function in KBDEL.SPR)
      |   |   |   |
      |   |   |   |---KBDELETE.PRG...
  
```



```

—SETQUALS...      (procedure in KB.SPR)
—SETGOALS...      (procedure in KB.SPR)
—SETDISPLAY...    (procedure in KB.SPR)
—QSF0KOG2M()      (function in KB.SPR)
—QUAL.SPR
  —QSF0KOMJF()     (function in QUAL.SPR)
    —EDQUAL        (procedure in KB.SPR)
      —EDOBJ()     (function in KB.SPR)
        —DISEASE.SPR
          —_QSF0KOU0D() (function in
            DISEASE.SPR)
          —_QSF0KOU3P() (function in
            DISEASE.SPR)
          —_QSF0KOU MI() (function in
            DISEASE.SPR)
          —_QSF0KOUQK() (function in
            DISEASE.SPR)
        —DICT.SPR
          —SETENUM (procedure in DICT.SPR)
          —_QSF0KPY4X() (funct in DICT.SPR)
          —_QSF0KPY8W() (funct in DICT.SPR)
            —EDENUM (procedure in
              DICT.SPR)
              —ENUM.SPR
                —_QSF0KPJAM()
                  (function in
                  ENUM.SPR)
                —_QSF0KPJF7()
                  (function in ENUM.SPR)
                —_QSF0KPJJK()
                  (function in ENUM.SPR)
                —_QSF0KPJYY()
                  (function in ENUM.SPR)
                —_QSF0KPK3S()
                  (function in ENUM.SPR)
                —_QSF0KPK8E()
                  (function in ENUM.SPR)
              —SETENUM. (procedure
                in DICT.SPR)
              —DDENUM.SPR
                —_QSF0KQ9MB()
                  (funct in DDENUM.SPR)
                —_QSF0KQ9QC()
                  (funct in DDENUM.SPR)
                —_QSF0KPYF6() (funct in DICT.SPR)
                —_QSF0KPYJ0() (funct in DICT.SPR)
          —QSF0KOMRX() (function in QUAL.SPR)
          —EDQUAL...   (procedure in KB.SPR)
          —QSF0KON7E() (function in QUAL.SPR)
            —OBJECT.SPR
              —_QSF0KPFR1() (function in OBJECT.SPR)
              —_QSF0KPFV8() (function in OBJECT.SPR)
              —GETOBJ() (function in OBJECT.SPR)
                —CREATARRAY() (function in
                  OBJECT.SPR)
                —SELITEM() (funct in OBJECT.SPR)
                  —OBLIST.SPR

```

```

      _QSF0KQ4M3() (funct in
                    OBLIST.SPR)
      DISEASE.SPR...
      DICT.SPR...
      _QSF0KPFYY() (function in OBJECT.SPR)
      _QSF0KPG47() (function in OBJECT.SPR)
      _CREATARRAY() ... (funct in OBJECT.SPR)
      _SELITEM() ... (funct in OBJECT.SPR)
      _QSF0KPGOJ() (function in OBJECT.SPR)
      _QSF0KPGSR() (function in OBJECT.SPR)
      _GETOBJ() ... (function in OBJECT.SPR)
      _QSF0KPGVZ() (function in OBJECT.SPR)
      _QSF0KPH17() (function in OBJECT.SPR)
      _CREATARRAY() ... (funct in OBJECT.SPR)
      _SELITEM() ... (funct in OBJECT.SPR)
      SETQUALS... (procedure in KB.SPR)
      VALIDOBJ() (function in QUAL.SPR)
      ERRMSG.PRG...
      QUALDEL() (function in QUAL.SPR)
      POPUPSHOW() ... (function in KBINIT.PRG)
      POPUPHIDE() ... (function in KBINIT.PRG)
      SETQUALS... (procedure in KB.SPR)
      _QSF0KONBU() (function in QUAL.SPR)
      EDQUAL... (procedure in KB.SPR)
GOAL.SPR
      _QSF0KOPCM() (function in GOAL.SPR)
      EDGOAL (procedure in KB.SPR)
      EDOBJ() ... (function in KB.SPR)
      _QSF0KOPG7() (function in GOAL.SPR)
      EDGOAL... (procedure in KB.SPR)
      _QSF0KOPTK() (function in GOAL.SPR)
      OBJECT.SPR...
      SETGOALS... (procedure in KB.SPR)
      _QSF0KOPXH() (function in GOAL.SPR)
      EDGOAL... (procedure in KB.SPR)
DISPLAY.SPR
      _QSF0KORJ1() (function in DISPLAY.SPR)
      EDDISPLAY (procedure in KB.SPR)
      EDOBJ() ... (function in KB.SPR)
      _QSF0KORMJ() (function in DISPLAY.SPR)
      EDDISPLAY... (procedure in KB.SPR)
      _QSF0KORZX() (function in DISPLAY.SPR)
      _QSF0KOS30() (function in DISPLAY.SPR)
      _QSF0KOS6A() (function in DISPLAY.SPR)
      EDDISPLAY... (procedure in KB.SPR)
      SETQUALS... (procedure in KB.SPR)
      SETGOALS... (procedure in KB.SPR)
      SETDISPLAY... (procedure in KB.SPR)
      _QSF0KOGFV() (function in KB.SPR)
      _QSF0KOGIH() (function in KB.SPR)
      _QSF0KOH4Z() (function in KB.SPR)
      KBLOAD.SPR...
      KBDEL.SPR...
      DISPLAY.SPR...
      KB.SPR...
      RULE.SPR...
      QUAL.SPR...

```

```

      GOAL.SPR...
      SETPREM...    (procedure in KBEDIT.SPR)
      SETACT...     (procedure in KBEDIT.SPR)
      SETQUALS...   (procedure in KB.SPR)
      SETGOALS...   (procedure in KB.SPR)
      SETDISPLAY... (procedure in KB.SPR)
      _QSF0KOHJ1()  (function in KB.SPR)
      _QSF0KOHM5()  (function in KB.SPR)
      _QSF0KOHPT()  (function in KB.SPR)
      DD.SPR
      _QSF0KPT2I()  (function in DD.SPR)
      DDEDIT.SPR
      _SETRULES()   (function in DDEDIT.SPR)
      _AREANAME()   (function in DDEDIT.SPR)
      _SETENUM...   (procedure in DICT.SPR)
      _QSF0KQ6M1()  (function in DDEDIT.SPR)
      _SETVAL       (procedure in DICT.SPR)
      _SETENUM...   (procedure in DICT.SPR)
      _DDENUM.SPR...
      _QSF0KQ6T0()  (function in DDEDIT.SPR)
      _EDENUM...    (procedure in DICT.SPR)
      _QSF0KQ6YY()  (function in DDEDIT.SPR)
      _CLEANENUM()  (function in DDEDIT.SPR)
      _QSF0KQ74F()  (function in DDEDIT.SPR)
      _VALIDOBJ() ... (function in QUAL.SPR)
      _QUALDEL() ... (function in QUAL.SPR)
      _RESETDATA()  (function in DD.SPR)
      _QSF0KPT7D()  (function in DD.SPR)
      DDEDIT.SPR...
      MYHANDLER()   (function in KBINIT.PRG)

```

Section VI. Procedure and Function Summary. The system contains 24 procedure files: KBINIT.PRG, KBLOAD.SPR, KB.SPR, KBDEL.SPR, QUAL.SPR, GOAL.SPR, DISPLAY.SPR, DISEASE.SPR, ACTION.SPR, ACTELSE.SPR, CLAUSE.SPR, RULE.SPR, TERM.SPR, OBJECT.SPR, ENUM.SPR, RESTORE.SPR, DD.SPR, PLAN.SPR, DICT.SPR, KBEDIT.SPR, OBLIST.SPR, DDEDIT.SPR, DDENUM.SPR, and BACKUP.SPR

1. KBINIT.PRG

Contains: MYHANDLER()	(Params: none)
Called by: KBINIT.PRG	
Contains: _QUIT()	(Params: none)
Called by: KBMENU.MPR	
Calls: ERRMSG.PRG	
Contains: POPUPSHOW()	(Params: ERRSTR)
Called by: QUALDEL()	(function in QUAL.SPR)
Called by: _QSF0KQC6T()	(function in KBLOAD.SPR)
Contains: POPUPHIDE()	(Params: W)
Called by: QUALDEL()	(function in QUAL.SPR)
Called by: _QSF0KQC6T()	(function in KBLOAD.SPR)
Contains: SETPATH()	(Params: NEWPATH)
Called by: KBINIT.PRG	

2. KBLOAD.SPR

Contains: _QSF0KQBNK()	(Params: none)
Called by: KBLOAD.SPR	
Calls: LOADOK	(procedure in KBLOAD.SPR)
Contains: _QSF0KQBT0()	(Params: none)
Called by: KBLOAD.SPR	
Calls: LOADOK	(procedure in KBLOAD.SPR)
Contains: _QSF0KQC1J()	(Params: none)
Called by: KBLOAD.SPR	
Calls: LOADOK	(procedure in KBLOAD.SPR)
Contains: _QSF0KQC42()	(Params: none)
Called by: KBLOAD.SPR	
Calls: LOADOK	(procedure in KBLOAD.SPR)
Contains: _QSF0KQC6T()	(Params: none)
Called by: KBLOAD.SPR	
Calls: CHECKFILE()	(function in KBLOAD.SPR)
Calls: POPUPSHOW()	(function in KBINIT.PRG)
Calls: KBLDR.PRG	
Calls: POPUPHIDE()	(function in KBINIT.PRG)
Contains: _QSF0KQCP2()	(Params: none)
Called by: KBLOAD.SPR	
Calls: LOADOK	(procedure in KBLOAD.SPR)
Contains: _QSF0KQCRO()	(Params: none)
Called by: KBLOAD.SPR	
Calls: LOADOK	(procedure in KBLOAD.SPR)
Contains: _QSF0KQCUA()	(Params: none)
Called by: KBLOAD.SPR	
Calls: LOADOK	(procedure in KBLOAD.SPR)
Contains: _QSF0KQCWT()	(Params: none)
Called by: KBLOAD.SPR	
Calls: LOADOK	(procedure in KBLOAD.SPR)
Contains: _QSF0KQCZG()	(Params: none)

Called by: KBLOAD.SPR	
Calls: KBLDR.PRG	
Contains: LOADOK	(Params: none)
Called by: KBLOAD.SPR	
Called by: _QSF0KQBNK()	(function in KBLOAD.SPR)
Called by: _QSF0KQBT0()	(function in KBLOAD.SPR)
Called by: _QSF0KQC1J()	(function in KBLOAD.SPR)
Called by: _QSF0KQC42()	(function in KBLOAD.SPR)
Called by: _QSF0KQCP2()	(function in KBLOAD.SPR)
Called by: _QSF0KQCRO()	(function in KBLOAD.SPR)
Called by: _QSF0KQCUA()	(function in KBLOAD.SPR)
Called by: _QSF0KQCWT()	(function in KBLOAD.SPR)
Contains: CHECKFILE()	(Params: M.NEW)
Called by: _QSF0KQC6T()	(function in KBLOAD.SPR)
Calls: YESNO.PRG	

3. KB.SPR

Contains: _QSF0KOFX9()	(Params: none)
Called by: KB.SPR	
Calls: KBLOAD.SPR	
Calls: KBEDIT.SPR	
Calls: KBDEL.SPR	
Calls: SETQUALS	(procedure in KB.SPR)
Calls: SETGOALS	(procedure in KB.SPR)
Calls: SETDISPLAY	(procedure in KB.SPR)
Contains: _QSF0KOG2M()	(Params: none)
Called by: KB.SPR	
Calls: QUAL.SPR	
Calls: GOAL.SPR	
Calls: DISPLAY.SPR	
Calls: SETQUALS	(procedure in KB.SPR)
Calls: SETGOALS	(procedure in KB.SPR)
Calls: SETDISPLAY	(procedure in KB.SPR)
Contains: _QSF0KOGFV()	(Params: none)
Called by: KB.SPR	
Contains: _QSF0KOGIH()	(Params: none)
Called by: KB.SPR	
Contains: _QSF0KOH4Z()	(Params: none)
Called by: KB.SPR	
Calls: KBLOAD.SPR	
Calls: KBDEL.SPR	
Calls: DISPLAY.SPR	
Calls: KB.SPR	
Calls: RULE.SPR	
Calls: QUAL.SPR	
Calls: GOAL.SPR	
Calls: SETPREM	(procedure in KBEDIT.SPR)
Calls: SETACT	(procedure in KBEDIT.SPR)
Calls: SETQUALS	(procedure in KB.SPR)
Calls: SETGOALS	(procedure in KB.SPR)
Calls: SETDISPLAY	(procedure in KB.SPR)
Contains: _QSF0KOHJ1()	(Params: none)
Called by: KB.SPR	
Contains: _QSF0KOHM5()	(Params: none)
Called by: KB.SPR	
Contains: _QSF0KOHPT()	(Params: none)

Called by: KB.SPR	
Contains: SETQUALS	(Params: none)
Called by: KB.SPR	
Called by: _QSF0KOFX9()	(function in KB.SPR)
Called by: _QSF0KOG2M()	(function in KB.SPR)
Called by: _QSF0KOH4Z()	(function in KB.SPR)
Called by: _QSF0KON7E()	(function in QUAL.SPR)
Called by: QUALDEL()	(function in QUAL.SPR)
Contains: SETGOALS	(Params: none)
Called by: KB.SPR	
Called by: _QSF0KOFX9()	(function in KB.SPR)
Called by: _QSF0KOG2M()	(function in KB.SPR)
Called by: _QSF0KOH4Z()	(function in KB.SPR)
Called by: _QSF0KOPTK()	(function in GOAL.SPR)
Called by: _QSF0KPV8R()	(function in PLAN.SPR)
Called by: _QSF0KPVQB()	(function in PLAN.SPR)
Contains: SETDISPLAY	(Params: none)
Called by: KB.SPR	
Called by: _QSF0KOFX9()	(function in KB.SPR)
Called by: _QSF0KOG2M()	(function in KB.SPR)
Called by: _QSF0KOH4Z()	(function in KB.SPR)
Contains: EDGOAL	(Params: none)
Called by: _QSF0KOPCM()	(function in GOAL.SPR)
Called by: _QSF0KOPG7()	(function in GOAL.SPR)
Called by: _QSF0KOPXH()	(function in GOAL.SPR)
Called by: _QSF0KPVCR()	(function in PLAN.SPR)
Called by: _QSF0KPVW8()	(function in PLAN.SPR)
Calls: EDOBJ()	(function in KB.SPR)
Contains: EDQUAL	(Params: none)
Called by: _QSF0KOMJF()	(function in QUAL.SPR)
Called by: _QSF0KOMRX()	(function in QUAL.SPR)
Called by: _QSF0KONBU()	(function in QUAL.SPR)
Calls: EDOBJ()	(function in KB.SPR)
Contains: EDDISPLAY	(Params: none)
Called by: _QSF0KORJ1()	(function in DISPLAY.SPR)
Called by: _QSF0KORMJ()	(function in DISPLAY.SPR)
Called by: _QSF0KOS6A()	(function in DISPLAY.SPR)
Calls: EDOBJ()	(function in KB.SPR)
Contains: EDOBJ()	(Params: MOBJ, MID)
Called by: EDGOAL	(procedure in KB.SPR)
Called by: EDQUAL	(procedure in KB.SPR)
Called by: EDDISPLAY	(procedure in KB.SPR)
Calls: DISEASE.SPR	
Calls: DICT.SPR	

4. KBDEL.SPR

Contains: _QSF0KKEU()	(Params: none)
Called by: KBDEL.SPR	
Calls: KBDELETE.PRG	
Contains: _QSF0KOKPT()	(Params: none)
Called by: KBDEL.SPR	
Calls: KBDELETE.PRG	

5. QUAL.SPR

Contains: _QSF0KOMJF()	(Params: none)
------------------------	----------------

Called by: QUAL.SPR	
Calls: EDQUAL	(procedure in KB.SPR)
Contains: _QSF0KOMRX()	(Params: none)
Called by: QUAL.SPR	
Calls: EDQUAL	(procedure in KB.SPR)
Contains: _QSF0KON7E()	(Params: none)
Called by: QUAL.SPR	
Calls: OBJECT.SPR	
Calls: SETQUALS	(procedure in KB.SPR)
Calls: VALIDOBJ()	(function in QUAL.SPR)
Calls: QUALDEL()	(function in QUAL.SPR)
Contains: _QSF0KONBU()	(Params: none)
Called by: QUAL.SPR	
Calls: EDQUAL	(procedure in KB.SPR)
Contains: POPUPSHOW()	(Params: ERRSTR)
Called by: QUALDEL()	(function in QUAL.SPR)
Called by: _QSF0KQC6T()	(function in KBLOAD.SPR)
Contains: POPUPHIDE()	(Params: W)
Called by: QUALDEL()	(function in QUAL.SPR)
Called by: _QSF0KQC6T()	(function in KBLOAD.SPR)
Contains: VALIDOBJ()	(Params: none)
Called by: _QSF0KON7E()	(function in QUAL.SPR)
Called by: _QSF0KPT2I()	(function in DD.SPR)
Calls: ERRMSG.PRG	
Contains: QUALDEL()	(Params: none)
Called by: _QSF0KON7E()	(function in QUAL.SPR)
Called by: _QSF0KPT2I()	(function in DD.SPR)
Calls: POPUPSHOW()	(function in KBINIT.PRG)
Calls: POPUPHIDE()	(function in KBINIT.PRG)
Calls: SETQUALS	(procedure in KB.SPR)

6. GOAL.SPR

Contains: _QSF0KOPCM()	(Params: none)
Called by: GOAL.SPR	
Calls: EDGOAL	(procedure in KB.SPR)
Contains: _QSF0KOPG7()	(Params: none)
Called by: GOAL.SPR	
Calls: EDGOAL	(procedure in KB.SPR)
Contains: _QSF0KOPTK()	(Params: none)
Called by: GOAL.SPR	
Calls: OBJECT.SPR	
Calls: SETGOALS	(procedure in KB.SPR)
Contains: _QSF0KOPXH()	(Params: none)
Called by: GOAL.SPR	
Calls: EDGOAL	(procedure in KB.SPR)

7. DISPLAY.SPR

Contains: _QSF0KORJ1()	(Params: none)
Called by: DISPLAY.SPR	
Calls: EDDISPLAY	(procedure in KB.SPR)
Contains: _QSF0KORMJ()	(Params: none)
Called by: DISPLAY.SPR	
Calls: EDDISPLAY	(procedure in KB.SPR)
Contains: _QSF0KORZX()	(Params: none)
Called by: DISPLAY.SPR	

Contains: _QSF0KOS30()	(Params: none)
Called by: DISPLAY.SPR	
Contains: _QSF0KOS6A()	(Params: none)
Called by: DISPLAY.SPR	
Calls: EDDISPLAY	(procedure in KB.SPR)

8. DISEASE.SPR

Contains: _QSF0KOU0D()	(Params: none)
Called by: DISEASE.SPR	
Contains: _QSF0KOU3P()	(Params: none)
Called by: DISEASE.SPR	
Contains: _QSF0KOU0MI()	(Params: none)
Called by: DISEASE.SPR	
Contains: _QSF0KOUQK()	(Params: none)
Called by: DISEASE.SPR	

9. ACTION.SPR

Contains: _QSF0KOX5V()	(Params: none)
Called by: ACTION.SPR	
Calls: EDACT	(procedure in ACTION.SPR)
Contains: _QSF0KOX9D()	(Params: none)
Called by: ACTION.SPR	
Calls: EDACT	(procedure in ACTION.SPR)
Contains: _QSF0KOXVA()	(Params: none)
Called by: ACTION.SPR	
Contains: _QSF0KOY50()	(Params: none)
Called by: ACTION.SPR	
Calls: EDACT	(procedure in ACTION.SPR)
Contains: _QSF0KOY8A()	(Params: none)
Called by: ACTION.SPR	
Calls: CLAUSE.SPR	
Calls: SETACT	(procedure in KBEDIT.SPR)
Contains: _QSF0KOYCP()	(Params: none)
Called by: ACTION.SPR	
Calls: EDACT	(procedure in ACTION.SPR)
Contains: EDACT	(Params: none)
Called by: _QSF0KOX5V()	(function in ACTION.SPR)
Called by: _QSF0KOX9D()	(function in ACTION.SPR)
Called by: _QSF0KOY50()	(function in ACTION.SPR)
Called by: _QSF0KOYCP()	(function in ACTION.SPR)
Calls: CLAUSE.SPR	
Calls: SETACT	(procedure in KBEDIT.SPR)
Contains: ADDNEWACT()	(Params: none)
Called by: ACTION.SPR	
Calls: CLAUSE.SPR	
Calls: SETACT	(procedure in KBEDIT.SPR)

10. ACTELSE.SPR

Contains: _QSF0KP07D()	(Params: none)
Called by: ACTELSE.SPR	
Calls: EDELSE	(procedure in ACTELSE.SPR)
Contains: _QSF0KP0AR()	(Params: none)
Called by: ACTELSE.SPR	
Calls: EDELSE	(procedure in ACTELSE.SPR)

Contains: _QSF0KP0S3()	(Params: none)
Called by: ACTELSE.SPR	
Contains: _QSF0KP0W3()	(Params: none)
Called by: ACTELSE.SPR	
Calls: EDELSE	(procedure in ACTELSE.SPR)
Contains: _QSF0KP0YP()	(Params: none)
Called by: ACTELSE.SPR	
Calls: ADDNEWELSE()	(function in ACTELSE.SPR)
Calls: CLAUSE.SPR	
Calls: SETELSE	(procedure in KBEDIT.SPR)
Contains: _QSF0KP13M()	(Params: none)
Called by: ACTELSE.SPR	
Calls: EDELSE	(procedure in ACTELSE.SPR)
Contains: EDELSE	(Params: none)
Called by: _QSF0KP07D()	(function in ACTELSE.SPR)
Called by: _QSF0KP0AR()	(function in ACTELSE.SPR)
Called by: _QSF0KP0W3()	(function in ACTELSE.SPR)
Called by: _QSF0KP13M()	(function in ACTELSE.SPR)
Calls: CLAUSE.SPR	
Calls: SETELSE	(procedure in KBEDIT.SPR)
Contains: ADDELSE	(Params: none)
Calls: CLAUSE.SPR	
Calls: SETELSE	(procedure in KBEDIT.SPR)
Contains: ADDNEWELSE()	(Params: none)
Called by: ACTELSE.SPR	
Called by: _QSF0KP0YP()	(function in ACTELSE.SPR)
Calls: CLAUSE.SPR	
Calls: SETELSE	(procedure in KBEDIT.SPR)

11. CLAUSE.SPR

Contains: _QSF0KP3SZ()	(Params: none)
Called by: CLAUSE.SPR	
Contains: _QSF0KP3X2()	(Params: none)
Called by: CLAUSE.SPR	
Contains: _QSF0KP435()	(Params: none)
Called by: CLAUSE.SPR	
Contains: _QSF0KP472()	(Params: none)
Called by: CLAUSE.SPR	
Contains: _QSF0KP5HS()	(Params: none)
Called by: CLAUSE.SPR	
Contains: _QSF0KP5LZ()	(Params: none)
Called by: CLAUSE.SPR	
Contains: _QSF0KP5Q1()	(Params: none)
Called by: CLAUSE.SPR	
Contains: _QSF0KP5UC()	(Params: none)
Called by: CLAUSE.SPR	
Contains: INSNEWID()	(Params: MDATA, MITEM)
Called by: CLAUSE.SPR	
Calls: DP.PRG	
Contains: SETOBJECT()	(Params: M.OBJECT, MTYPE)
Called by: CLAUSE.SPR	

12. RULE.SPR

Contains: _QSF0KP97Y()	(Params: none)
Called by: RULE.SPR	

Contains: _QSF0KPA3B()	(Params: none)
Called by: RULE.SPR	
Contains: _QSF0KPA7J()	(Params: none)
Called by: RULE.SPR	
Calls: YESNO.PRG	

13. TERM.SPR

Contains: _QSF0KPC3R()	(Params: none)
Called by: TERM.SPR	
Calls: EDPREM	(procedure in TERM.SPR)
Contains: _QSF0KPC6D()	(Params: none)
Called by: TERM.SPR	
Calls: EDPREM	(procedure in TERM.SPR)
Contains: _QSF0KPCPM()	(Params: none)
Called by: TERM.SPR	
Contains: _QSF0KPCU9()	(Params: none)
Called by: TERM.SPR	
Calls: SETJOIN()	(function in TERM.SPR)
Contains: _QSF0KPCWU()	(Params: none)
Called by: TERM.SPR	
Calls: SETJOIN()	(function in TERM.SPR)
Contains: _QSF0KPCZG()	(Params: none)
Called by: TERM.SPR	
Calls: EDPREM	(procedure in TERM.SPR)
Contains: _QSF0KPD1Z()	(Params: none)
Called by: TERM.SPR	
Calls: ADDFACT()	(function in TERM.SPR)
Contains: _QSF0KPD51()	(Params: none)
Called by: TERM.SPR	
Calls: EDPREM	(procedure in TERM.SPR)
Contains: EDPREM	(Params: none)
Called by: _QSF0KPC3R()	(function in TERM.SPR)
Called by: _QSF0KPC6D()	(function in TERM.SPR)
Called by: _QSF0KPCZG()	(function in TERM.SPR)
Called by: _QSF0KPD51()	(function in TERM.SPR)
Calls: CLAUSE.SPR	
Calls: SETPREM	(procedure in KBEDIT.SPR)
Contains: SETJOIN()	(Params: JOINOP)
Called by: _QSF0KPCU9()	(function in TERM.SPR)
Called by: _QSF0KPCWU()	(function in TERM.SPR)
Calls: SETPREM	(procedure in KBEDIT.SPR)
Contains: LASTFACT()	(Params: none)
Contains: ADDFACT()	(Params: none)
Called by: TERM.SPR	
Called by: _QSF0KPD1Z()	(function in TERM.SPR)
Calls: CLAUSE.SPR	
Calls: SETPREM	(procedure in KBEDIT.SPR)

14. OBJECT.SPR

Contains: _QSF0KPFRI()	(Params: none)
Called by: OBJECT.SPR	
Contains: _QSF0KPFV8()	(Params: none)
Called by: OBJECT.SPR	
Calls: GETOBJ()	(function in OBJECT.SPR)
Contains: _QSF0KPFYY()	(Params: none)

Called by: OBJECT.SPR	
Contains: _QSF0KPG47()	(Params: none)
Called by: OBJECT.SPR	
Calls: CREATARRAY()	(function in OBJECT.SPR)
Calls: SELITEM()	(function in OBJECT.SPR)
Contains: _QSF0KPGOJ()	(Params: none)
Called by: OBJECT.SPR	
Contains: _QSF0KPGSR()	(Params: none)
Called by: OBJECT.SPR	
Calls: GETOBJ()	(function in OBJECT.SPR)
Contains: _QSF0KPGVZ()	(Params: none)
Called by: OBJECT.SPR	
Contains: _QSF0KPH17()	(Params: none)
Called by: OBJECT.SPR	
Calls: CREATARRAY()	(function in OBJECT.SPR)
Calls: SELITEM()	(function in OBJECT.SPR)
Contains: CREATARRAY()	(Params: none)
Called by: _QSF0KPG47()	(function in OBJECT.SPR)
Called by: _QSF0KPH17()	(function in OBJECT.SPR)
Called by: GETOBJ()	(function in OBJECT.SPR)
Contains: DATAINPUT()	(Params: none)
Calls: DISEASE.SPR	
Calls: DICT.SPR	
Contains: GETOBJ()	(Params: M.NAME)
Called by: _QSF0KPFV8()	(function in OBJECT.SPR)
Called by: _QSF0KPGSR()	(function in OBJECT.SPR)
Calls: CREATARRAY()	(function in OBJECT.SPR)
Calls: SELITEM()	(function in OBJECT.SPR)
Contains: SELITEM()	(Params: none)
Called by: _QSF0KPG47()	(function in OBJECT.SPR)
Called by: _QSF0KPH17()	(function in OBJECT.SPR)
Called by: GETOBJ()	(function in OBJECT.SPR)
Calls: OBLIST.SPR	
Calls: DISEASE.SPR	
Calls: DICT.SPR	

15. ENUM.SPR

Contains: _QSF0KPJAM()	(Params: none)
Called by: ENUM.SPR	
Contains: _QSF0KPJF7()	(Params: none)
Called by: ENUM.SPR	
Contains: _QSF0KPJJK()	(Params: none)
Called by: ENUM.SPR	
Contains: _QSF0KPJYY()	(Params: none)
Called by: ENUM.SPR	
Contains: _QSF0KPK3S()	(Params: none)
Called by: ENUM.SPR	
Contains: _QSF0KPK8E()	(Params: none)
Called by: ENUM.SPR	

16. RESTORE.SPR

Contains: _QSF0KMPZ()	(Params: none)
Called by: RESTORE.SPR	
Contains: _QSF0KPMS0()	(Params: none)
Called by: RESTORE.SPR	

Calls: YESNO.PRG	
Calls: NEWPATHPOP	(procedure in BACKUP.SPR)
Calls: NEWFILEPOP	(procedure in BACKUP.SPR)
Contains: _QSF0KPMXI()	(Params: none)
Called by: RESTORE.SPR	
Calls: PATHSTRING	(procedure in BACKUP.SPR)
Calls: NEWPATHPOP	(procedure in BACKUP.SPR)
Calls: NEWFILEPOP	(procedure in BACKUP.SPR)
Contains: _QSF0KPN0J()	(Params: none)
Called by: RESTORE.SPR	
Calls: PKUNZIP	(procedure in RESTORE.SPR)
Contains: _QSF0KPN3T()	(Params: none)
Called by: RESTORE.SPR	
Calls: NEWPATHPOP	(procedure in BACKUP.SPR)
Calls: NEWFILEPOP	(procedure in BACKUP.SPR)
Contains: _QSF0KPN7E()	(Params: none)
Called by: RESTORE.SPR	
Contains: _QSF0KPNY5()	(Params: none)
Called by: RESTORE.SPR	
Contains: _QSF0KPO0A()	(Params: none)
Called by: RESTORE.SPR	
Calls: YESNO.PRG	
Calls: NEWPATHPOP	(procedure in BACKUP.SPR)
Calls: NEWFILEPOP	(procedure in BACKUP.SPR)
Contains: _QSF0KPO5T()	(Params: none)
Called by: RESTORE.SPR	
Calls: PATHSTRING	(procedure in BACKUP.SPR)
Calls: NEWPATHPOP	(procedure in BACKUP.SPR)
Calls: NEWFILEPOP	(procedure in BACKUP.SPR)
Contains: _QSF0KPO8T()	(Params: none)
Called by: RESTORE.SPR	
Calls: PKUNZIP	(procedure in RESTORE.SPR)
Contains: _QSF0KPOBY()	(Params: none)
Called by: RESTORE.SPR	
Calls: NEWPATHPOP	(procedure in BACKUP.SPR)
Calls: NEWFILEPOP	(procedure in BACKUP.SPR)
Contains: _QSF0KPOFG()	(Params: none)
Called by: RESTORE.SPR	
Contains: NEWDRIVEPOP	(Params: none)
Called by: BACKUP.SPR	
Called by: RESTORE.SPR	
Contains: NEWPATHPOP	(Params: none)
Called by: BACKUP.SPR	
Called by: RESTORE.SPR	
Called by: _QSF0KO98Q()	(function in BACKUP.SPR)
Called by: _QSF0KO9EC()	(function in BACKUP.SPR)
Called by: _QSF0KO9LV()	(function in BACKUP.SPR)
Called by: _QSF0KOAID()	(function in BACKUP.SPR)
Called by: _QSF0KOANU()	(function in BACKUP.SPR)
Called by: _QSF0KOAUY()	(function in BACKUP.SPR)
Called by: _QSF0KPMS0()	(function in RESTORE.SPR)
Called by: _QSF0KPMXI()	(function in RESTORE.SPR)
Called by: _QSF0KPN3T()	(function in RESTORE.SPR)
Called by: _QSF0KPO0A()	(function in RESTORE.SPR)
Called by: _QSF0KPO5T()	(function in RESTORE.SPR)
Called by: _QSF0KPOBY()	(function in RESTORE.SPR)
Contains: NEWFILEPOP	(Params: none)

Called by: BACKUP.SPR	
Called by: RESTORE.SPR	
Called by: _QSF0KO98Q()	(function in BACKUP.SPR)
Called by: _QSF0KO9EC()	(function in BACKUP.SPR)
Called by: _QSF0KO9LV()	(function in BACKUP.SPR)
Called by: _QSF0KO9AID()	(function in BACKUP.SPR)
Called by: _QSF0KOANU()	(function in BACKUP.SPR)
Called by: _QSF0KOAUY()	(function in BACKUP.SPR)
Called by: _QSF0KPMS0()	(function in RESTORE.SPR)
Called by: _QSF0KPMXI()	(function in RESTORE.SPR)
Called by: _QSF0KPN3T()	(function in RESTORE.SPR)
Called by: _QSF0KPO0A()	(function in RESTORE.SPR)
Called by: _QSF0KPO5T()	(function in RESTORE.SPR)
Called by: _QSF0KPOBY()	(function in RESTORE.SPR)
Contains: PATHSTRING	(Params: none)
Called by: _QSF0KO9EC()	(function in BACKUP.SPR)
Called by: _QSF0KOANU()	(function in BACKUP.SPR)
Called by: PKZIP	(procedure in BACKUP.SPR)
Called by: _QSF0KPMXI()	(function in RESTORE.SPR)
Called by: _QSF0KPO5T()	(function in RESTORE.SPR)
Called by: PKUNZIP	(procedure in RESTORE.SPR)
Contains: PKUNZIP	(Params: none)
Called by: _QSF0KPN0J()	(function in RESTORE.SPR)
Called by: _QSF0KPO8T()	(function in RESTORE.SPR)
Calls: PATHSTRING	(procedure in BACKUP.SPR)

17. DD.SPR

Contains: VALIDOBJ()	(Params: none)
Called by: _QSF0KON7E()	(function in QUAL.SPR)
Called by: _QSF0KPT2I()	(function in DD.SPR)
Calls: ERRMSG.PRG	
Contains: QUALDEL()	(Params: none)
Called by: _QSF0KON7E()	(function in QUAL.SPR)
Called by: _QSF0KPT2I()	(function in DD.SPR)
Calls: POPUPSHOW()	(function in KBINIT.PRG)
Calls: POPUPHIDE()	(function in KBINIT.PRG)
Calls: SETQUALS	(procedure in KB.SPR)
Contains: RESETDATA()	(Params: none)
Called by: _QSF0KPT2I()	(function in DD.SPR)
Contains: _QSF0KPT2I()	(Params: none)
Called by: DD.SPR	
Calls: DDEDIT.SPR	
Calls: VALIDOBJ()	(function in QUAL.SPR)
Calls: QUALDEL()	(function in QUAL.SPR)
Calls: RESETDATA()	(function in DD.SPR)
Contains: _QSF0KPT7D()	(Params: none)
Called by: DD.SPR	
Calls: DDEDIT.SPR	

18. PLAN.SPR

Contains: _QSF0KPV8R()	(Params: none)
Called by: PLAN.SPR	
Calls: OBJECT.SPR	
Calls: SETGOALS	(procedure in KB.SPR)

Contains: _QSF0KPVCR()	(Params: none)
Called by: PLAN.SPR	
Calls: EDGOAL	(procedure in KB.SPR)
Contains: _QSF0KPVQB()	(Params: none)
Called by: PLAN.SPR	
Calls: OBJECT.SPR	
Calls: SETGOALS	(procedure in KB.SPR)
Contains: _QSF0KPVW8()	(Params: none)
Called by: PLAN.SPR	
Calls: EDGOAL	(procedure in KB.SPR)

19. DICT.SPR

Contains: EDENUM	(Params: none)
Called by: _QSF0KPY8W()	(function in DICT.SPR)
Called by: _QSF0KQ6T0()	(function in DEDIT.SPR)
Calls: ENUM.SPR	
Calls: SETENUM	(procedure in DICT.SPR)
Calls: DDENUM.SPR	
Contains: SETENUM	(Params: none)
Called by: DICT.SPR	
Called by: DEDIT.SPR	
Called by: EDENUM	(procedure in DICT.SPR)
Called by: _QSF0KQ6M1()	(function in DEDIT.SPR)
Contains: SETVAL	(Params: none)
Called by: _QSF0KQ6M1()	(function in DEDIT.SPR)
Contains: _QSF0KPY4X()	(Params: none)
Called by: DICT.SPR	
Contains: _QSF0KPY8W()	(Params: none)
Called by: DICT.SPR	
Calls: EDENUM	(procedure in DICT.SPR)
Contains: _QSF0KPYF6()	(Params: none)
Called by: DICT.SPR	
Contains: _QSF0KPYJ0()	(Params: none)
Called by: DICT.SPR	

20. KBEDIT.SPR

Contains: SETPREM	(Params: none)
Called by: KBEDIT.SPR	
Called by: _QSF0KOH4Z()	(function in KB.SPR)
Called by: ADDFACT()	(function in TERM.SPR)
Called by: EDPREM	(procedure in TERM.SPR)
Called by: SETJOIN()	(function in TERM.SPR)
Called by: _QSF0KQ0SA()	(function in KBEDIT.SPR)
Called by: _QSF0KQ14Z()	(function in KBEDIT.SPR)
Calls: EMPTY()	(function in KBEDIT.SPR)
Calls: HLINK()	(function in KBEDIT.SPR)
Calls: VLINK()	(function in KBEDIT.SPR)
Contains: VLINK()	(Params: FROM, TO)
Called by: SETPREM	(procedure in KBEDIT.SPR)
Contains: HLINK()	(Params: S)
Called by: SETPREM	(procedure in KBEDIT.SPR)
Contains: PUSH()	(Params: N)
Contains: POP()	(Params: none)
Contains: EMPTY()	(Params: none)
Called by: SETPREM	(procedure in KBEDIT.SPR)

Contains: SETACT	(Params: none)
Called by: KBEDIT.SPR	
Called by: _QSF0KOH4Z()	(function in KB.SPR)
Called by: ADDNEWACT()	(function in ACTION.SPR)
Called by: _QSF0KOY8A()	(function in ACTION.SPR)
Called by: EDACT	(procedure in ACTION.SPR)
Called by: _QSF0KQ14Z()	(function in KBEDIT.SPR)
Contains: SETELSE	(Params: none)
Called by: KBEDIT.SPR	
Called by: ADDNEWELSE()	(function in ACTELSE.SPR)
Called by: _QSF0KP0YP()	(function in ACTELSE.SPR)
Called by: EDELSE	(procedure in ACTELSE.SPR)
Called by: ADDELSE	(procedure in ACTELSE.SPR)
Called by: _QSF0KQ10R()	(function in KBEDIT.SPR)
Called by: _QSF0KQ14Z()	(function in KBEDIT.SPR)
Contains: SETACTION()	(Params: none)
Called by: KBEDIT.SPR	
Called by: _QSF0KQ14Z()	(function in KBEDIT.SPR)
Contains: _QSF0KQ0SA()	(Params: none)
Called by: KBEDIT.SPR	
Calls: TERM.SPR	
Calls: SETPREM	(procedure in KBEDIT.SPR)
Contains: _QSF0KQ0WK()	(Params: none)
Called by: KBEDIT.SPR	
Calls: ACTION.SPR	
Contains: _QSF0KQ10R()	(Params: none)
Called by: KBEDIT.SPR	
Calls: ACTELSE.SPR	
Calls: SETELSE	(procedure in KBEDIT.SPR)
Contains: _QSF0KQ14Z()	(Params: none)
Called by: KBEDIT.SPR	
Calls: RULE.SPR	
Calls: SETPREM	(procedure in KBEDIT.SPR)
Calls: SETACT	(procedure in KBEDIT.SPR)
Calls: SETELSE	(procedure in KBEDIT.SPR)
Calls: SETACTION()	(function in KBEDIT.SPR)

21. OBLIST.SPR

Contains: _QSF0KQ4M3()	(Params: none)
Called by: OBLIST.SPR	

22. DDEDIT.SPR

Contains: SETRULES()	(Params: none)
Called by: DDEDIT.SPR	
Calls: AREANAME()	(function in DDEDIT.SPR)
Contains: EDENUM	(Params: none)
Called by: _QSF0KPY8W()	(function in DICT.SPR)
Called by: _QSF0KQ6T0()	(function in DDEDIT.SPR)
Calls: ENUM.SPR	
Calls: SETENUM	(procedure in DICT.SPR)
Calls: DDENUM.SPR	
Contains: SETENUM	(Params: none)
Called by: DICT.SPR	
Called by: DDEDIT.SPR	
Called by: EDENUM	(procedure in DICT.SPR)

Called by: _QSF0KQ6M1()	(function in DDEDIT.SPR)
Contains: SETVAL	(Params: none)
Called by: _QSF0KQ6M1()	(function in DDEDIT.SPR)
Contains: CLEANENUM()	(Params: none)
Called by: _QSF0KQ6YY()	(function in DDEDIT.SPR)
Contains: AREANAME()	(Params: MID)
Called by: SETRULES()	(function in DDEDIT.SPR)
Contains: _QSF0KQ6M1()	(Params: none)
Called by: DDEDIT.SPR	
Calls: SETVAL	(procedure in DICT.SPR)
Calls: SETENUM	(procedure in DICT.SPR)
Calls: DDENUM.SPR	
Contains: _QSF0KQ6T0()	(Params: none)
Called by: DDEDIT.SPR	
Calls: EDENUM	(procedure in DICT.SPR)
Contains: _QSF0KQ6YY()	(Params: none)
Called by: DDEDIT.SPR	
Calls: CLEANENUM()	(function in DDEDIT.SPR)
Contains: _QSF0KQ74F()	(Params: none)
Called by: DDEDIT.SPR	

23. DDENUM.SPR

Contains: _QSF0KQ9MB()	(Params: none)
Called by: DDENUM.SPR	
Contains: _QSF0KQ9QC()	(Params: none)
Called by: DDENUM.SPR	

24. BACKUP.SPR

Contains: _QSF0KO96C()	(Params: none)
Called by: BACKUP.SPR	
Contains: _QSF0KO98Q()	(Params: none)
Called by: BACKUP.SPR	
Calls: YESNO.PRG	
Calls: NEWPATHPOP	(procedure in BACKUP.SPR)
Calls: NEWFILEPOP	(procedure in BACKUP.SPR)
Contains: _QSF0KO9EC()	(Params: none)
Called by: BACKUP.SPR	
Calls: PATHSTRING	(procedure in BACKUP.SPR)
Calls: NEWPATHPOP	(procedure in BACKUP.SPR)
Calls: NEWFILEPOP	(procedure in BACKUP.SPR)
Contains: _QSF0KO9HK()	(Params: none)
Called by: BACKUP.SPR	
Calls: YESNO.PRG	
Calls: PKZIP	(procedure in BACKUP.SPR)
Contains: _QSF0KO9LV()	(Params: none)
Called by: BACKUP.SPR	
Calls: NEWPATHPOP	(procedure in BACKUP.SPR)
Calls: NEWFILEPOP	(procedure in BACKUP.SPR)
Contains: _QSF0KOAG9()	(Params: none)
Called by: BACKUP.SPR	
Contains: _QSF0KOAID()	(Params: none)
Called by: BACKUP.SPR	
Calls: YESNO.PRG	
Calls: NEWPATHPOP	(procedure in BACKUP.SPR)
Calls: NEWFILEPOP	(procedure in BACKUP.SPR)

Contains: _QSF0KOANU()	(Params: none)
Called by: BACKUP.SPR	
Calls: PATHSTRING	(procedure in BACKUP.SPR)
Calls: NEWPATHPOP	(procedure in BACKUP.SPR)
Calls: NEWFILEPOP	(procedure in BACKUP.SPR)
Contains: _QSF0KOAQV()	(Params: none)
Called by: BACKUP.SPR	
Calls: YESNO.PRG	
Calls: PKZIP	(procedure in BACKUP.SPR)
Contains: _QSF0KOAUY()	(Params: none)
Called by: BACKUP.SPR	
Calls: NEWPATHPOP	(procedure in BACKUP.SPR)
Calls: NEWFILEPOP	(procedure in BACKUP.SPR)
Contains: NEWDRIVEPOP	(Params: none)
Called by: BACKUP.SPR	
Called by: RESTORE.SPR	
Contains: NEWPATHPOP	(Params: none)
Called by: BACKUP.SPR	
Called by: RESTORE.SPR	
Called by: _QS*	(function in BACKUP.SPR)
Contains: NEWFILEPOP	(Params: none)
Called by: BACKUP.SPR	
Called by: RESTORE.SPR	
Called by: _QSF0KO98Q()	(function in BACKUP.SPR)
Called by: _QSF0KOAUY()	(function in BACKUP.SPR)
Called by: _QSF0KPOBY()	(function in RESTORE.SPR)
Contains: PATHSTRING	(Params: none)
Called by: _QSF0KO9EC()	(function in BACKUP.SPR)
Called by: _QSF0KOANU()	(function in BACKUP.SPR)
Called by: PKZIP	(procedure in BACKUP.SPR)
Called by: _QSF0KPMXI()	(function in RESTORE.SPR)
Called by: _QSF0KPO5T()	(function in RESTORE.SPR)
Called by: PKUNZIP	(procedure RESTORE.SPR)
Contains: PKZIP	(Params: none)
Called by: _QSF0KO9HK()	(function in BACKUP.SPR)
Called by: _QSF0KOAQV()	(function in BACKUP.SPR)
Calls: PATHSTRING	(procedure in BACKUP.SPR)

Section VII. Program Source Code

```

1:  *****
=> *****
2:  *
3:  * Procedure file: C:\CAMD2\KBEDIT\WORK\KBINIT.PRG
4:  * System: Knowledge Base Editor
5:  * Author: Hoa L. Ly
6:  * Copyright (c) June 1, 1994, Naval Health Research Center, Code 2
7:  *
8:  * Last modified: 08/05/94 at 14:05:34
9:  *
10: * Procs & Fncts: SETPATH()
11: * : MYHANDLER()
12: * : QUIT()
13: * : POPUPSHOW()
14: * : POPUPHIDE()
15: *
16: * Calls: SETPATH()
17: * : KBMENU.MPR
18: * : MYHANDLER()
19: *
20: * Documented 15:00:46 FoxDoc versio
21: *
22: * *****
23: *
24: * Initialize system init_app()
25: *
26: *
27: *
28: *
29: * PUBLIC m.pass,savetalk,savesc
30: * PUBLIC dropped,mproc
31: * PUBLIC m.new, m.home, m.data
32: *
33: * IF SET('TALK') = 'ON'
34: * SET TALK OFF
35: * savetalk = 'ON'
36: * ELSE
37: * savetalk = 'OFF'
38: * ENDIF
39: *
40: * IF SET('ESCAPE') = 'ON'
41: * SET ESCAPE OFF
42: * savesc = 'ON'
43: * ELSE
44: * savesc = 'OFF'
45: * ENDIF
46: *
47: * && End of init app()
48: * m.home = SYS(2005)
49: * m.data = GETENV("KBDATA")
50: * IF !EMPTY(m.data)
51: * DO setpath WITH m.data
52: * ENDIF
53: * m.bak = m.data + "\bak\"
54: * m.new = m.data + "\new\"
55: *
56: *
57: * Backup request.
58: *
59: * m.do = yesno("Do you want to Backup database?", "YES", "NO")
60: * IF m.do

```

```

61: * do backup
62: *ENDIF
63: *
64: *setup help file
65: SET HELP TO kbhelp.dbf
66: ON KEY LABEL f1 HELP
67: *
68: *-----
69: * Install menu
70: *-----
71: dropped = .F.
72: PUSH MENU _mysysmenu && HLL
73: DO kbmenu.mpr && Launch application menu
74: READ VALID myhandler()
75: *
76: *
77: POP MENU _mysysmenu && HLL
78: *
79: *-----
80: * Restore request.
81: *-----
82: CLEAR WINDOWS ALL
83: CLOSE DATABASES
84: SET TOPIC TO "restore"
85: *m.do = yesno("Do you want to Restore?", "YES", "NO")
86: *IF m.do
87: * do restore
88: *ENDIF
89: SET HELP TO
90: *
91: *****
92: *
93: * DONE
94: *-----
95: CLEAR WINDOWS ALL
96: CLOSE ALL
97: RETURN
98: *
99: *****
100: *
101: * Function: MYHANDLER
102: *
103: * Called by: KBINIT.PRG
104: *
105: *****
106: *
107: * FUNCTION myhandler
108: * IF TYPE("dropped") = "U"
109: * dropped = .F.
110: * ENDIF
111: * RETURN dropped
112: *
113: *
114: * Quit the system
115: *
116: *
117: *****
118: *
119: *
120: * Function: _QUIT
121: *
122: * Called by: KBMENU.MPR

```

```

122: *!
123: *!      Calls: ERRMSG.PRg
124: *!
125: *!*****
=> *****
126: FUNCTION quit
127: IF EMPTY(_WOUTPUT())
128:   dropped = .T.
129:   CLEAR READ ALL
130: ELSE
131:   =errmsg("Close windows before quitting",1)
132: ENDIF
133: RETURN
134:
135: *-----
136: *      * display popup notice
137: *
138: *-----
139: *
140:
141: *!*****
=> *****
142: *!
143: *!      Function: POPUPSHOW
144: *!
145: *!      Called by: QUALDEL()      (function in QUAL.SPR)
146: *!      : _GSFOKQC6T()      (function in KBLOAD.SPR)
147: *!
148: *!*****
=> *****
149: FUNCTION popupshow
150: PARAMETERS errstr
151: IF NOT WEXIST("w_popnote")
152:   DEFINE WINDOW w_popnote
153:   FROM INT((SROW()-8)/2),INT((SCOL()-36)/2)
154:   TO INT((SROW()-8)/2)+7,INT((SCOL()-36)/2)+35
155:   TITLE "One moment"
156:   FLOAT
157:   CLOSE
158:   SHADOW
159:   DOUBLE
160:   COLOR SCHEME 1
161: ENDIF
162: IF WVISIBLE("w_popnote")
163:   ACTIVATE WINDOW w_popnote SAME
164: ELSE
165:   ACTIVATE WINDOW w_popnote NOSHOW
166: ENDIF
167: @ 1,1 SAY errstr SIZE 3,31
168:
169: IF NOT WVISIBLE("w_popnote")
170:   ACTIVATE WINDOW w_popnote
171: ENDIF
172: RETURN ""
173:
174: *!*****
=> *****
175: *!
176: *!      Function: POPUPHIDE
177: *!
178: *!      Called by: QUALDEL()      (function in QUAL.SPR)
179: *!      : _GSFOKQC6T()      (function in KBLOAD.SPR)
180: *!
181: *!*****
=> *****
182: FUNCTION popuphide

```

```

183:
184: <---RETURN
185:
186: *-----
187: *      * Quit out the system
188: *-----
189: CLOSE DATABASES
190: *set default to (m.home)
191:
192: *-----
193: *      * Creat foxpro path
194: *-----
195: *!*****
=> *****
196: *!
197: *!      Function: SETPATH
198: *!
199: *!      Called by: KBINIT.PRg
200: *!
201: *!*****
=> *****
202: FUNCTION setpath
203: PARAMETER newpath
204: PRIVATE mnewpath
205: IF EMPTY(newpath)
206:   mnewpath = FULLPATH(newpath) + "."
207:   mcurpath = IIF(EMPTY(SET("PATH")),FULLPATH(CURDIR())+".",SET("PATH")
=> ")
208: IF NOT mcurpath $ mnewpath
209:   mcurpath = mcurpath + mnewpath      && add sams subdirectory to
=> path
210: ENDIF
211: SET PATH TO (mcurpath)
212: ENDIF
213: <---RETURN .T.
214:
215:
216:
217:
218: *      * EOF: KBINIT.act

```

```

1:  *****
2:  * Procedure file: C:\CAMD2\KBEDIT\WORK\YESNO.PRG
3:  * System: Knowledge Base Editor
4:  * Author: Hoa L. Ly
5:  * Copyright (c) June 1, 1994, Naval Health Research Center, Code 2
6:  *
=> 7:  * Last modified: 08/05/94 at 11:38:50
8:  *
9:  * Set by: QSF0K098Q() (function in BACKUP.SPR)
10:  * : QSF0K09HK() (function in BACKUP.SPR)
11:  * : QSF0K0AID() (function in BACKUP.SPR)
12:  * : QSF0K0AQV() (function in BACKUP.SPR)
13:  * : QSF0KPA7J() (function in RULE.SPR)
14:  * : QSF0KPM50() (function in RESTORE.SPR)
15:  * : QSF0KPO0A() (function in RESTORE.SPR)
16:  * : CHECKFILE() (function in KBLOAD.SPR)
17:  *
18:  * Documented 15:00:47 FoxDoc Versio
=> 19:  * 3.00a
20:  *
21:  * 11/26/91 YESNO.PRG 02:50:49 *
22:  *
23:  *
24:  *
25:  *
26:  * Adam Green
27:  *
28:  * Copyright (c) 1991 Adam Green Seminars
29:  * One Faneuil Hall
30:  * Boston, MA 02174
31:  *
32:  * Description:
33:  * This program was automatically generated by GENSCRN.
34:  *
35:  *
36:  *
37:  *
38:  *
39:  *
40:  * YESNO Setup Code - SECTION 1
41:  *
42:  *
43:  *
44:  *
45:  *
46:  *
47:  *
48:  *
=> 49:  *
50:  *
51:  *
52:  *
53:  *
54:  *
55:  *
56:  *
57:  *
58:  *
59:  *
60:  *
61:  *

```

```

62:  *
63:  *
64:  * The message is centered in an aSAY
65:  * m.message = SUBSTR( m.message, 1, 129 )
66:  *
67:  *
68:  *
69:  *
70:  *
71:  *
72:  *
73:  *
74:  *
75:  *
76:  *
77:  *
78:  *
79:  *
80:  *
81:  *
82:  *
83:  *
84:  *
85:  *
86:  *
87:  *
88:  *
89:  *
90:  *
91:  *
92:  *
93:  *
94:  *
95:  *
96:  *
97:  *
98:  *
99:  *
100:  *
101:  *
102:  *
103:  *
104:  *
105:  *
106:  *
107:  *
108:  *
109:  *
110:  *
111:  *
112:  *
113:  *
114:  *
115:  *
116:  *
117:  *
118:  *
119:  *
120:  *
121:  *
122:  *
123:  *
124:  *
125:  *
126:  *
127:  *

```

```

128: READ CYCLE MODAL
129:
130: RELEASE WINDOW yesno
131:
132: #REGION 0
133: IF m.talkstat = "ON"
134: SET TALK ON
135: ENDIF
136: IF m.compstat = "ON"
137: SET COMPATIBLE ON
138: ENDIF
139:
140: *****
141: *
142: * YESNO Cleanup Code
143: *
144: *
145: * *****
146: *
147: #REGION 1
148: POP KEY
149:
150: * Convert the numeric value of m.answer from 1|2 to .T.|.F.
151: * If the user selected OK and didn't exit with Escape
152: IF m.answer = 1 AND LASTKEY() <> 27
153: RETURN .T.
154: ELSE
155: * Cancel or Escape returns false
156: RETURN .F.
157: ENDIF
158: *: EOF: YESNO.act
159:

```

```

1:  *:*****
=> *****
2:  *:
3:  *: Procedure file: C:\CAMD2\KBEDIT\WORK\BACKUP.PRG
4:  *: System: Knowledge Base Editor
5:  *: Author: Hoa L. Ly
6:  *: Copyright (c) June 1, 1994, Naval Health Research Center, Code 2
=> 2
7:  *: Last modified: 02/15/94 at 13:31:20
8:  *:
9:  *: Set by: KBMENU.MPR
10: *:
11: *: Calls: BACKUP.SPR
12: *:
13: *: Documented 15:00:47 FoxDoc versio
=> n 3.00a
14: *:*****
=> *****
15: *:-----
=> -----
16: * Backup data files
17: * Programmer: HLL
18: *-----
=> -----
19: * PROCEDURE backup
20: PUBLIC mscreen
21: PRIVATE MESSAGE
22: SAVE SCREEN TO mscreen
23: MESSAGE = "Backup Knowledge Base database"
24: SET TOPIC TO "BACKUP"
25: DO backup.spr WITH MESSAGE
26: RESTORE SCREEN FROM mscreen
27: <---RETURN
28:
29: *: EOF: BACKUP.act

```

1: *
2: *
3: *
4: *
5: *
6: *
7: *
8: *
9: *
10: *
11: *
12: *
13: *
14: *
15: *
16: *
17: *
18: *
19: *
20: *
21: *
22: *
23: *
24: *
25: *
26: *
27: *
28: *
29: *
30: *
31: *
32: *
33: *
34: *
35: *
36: *
37: *
38: *
39: *
40: *
41: *
42: *
43: *
44: *
45: *
46: *
47: *
48: *
49: *
50: *

08/09/94	KBMENU.MPR	09:38:40
Author's Name		
Copyright (c) 1994 Company Name		
Address		
City, Zip		
Description:		
This program was automatically generated by GENMENU.		

Menu Definition

```
SET SYSMENU TO
SET SYSMENU AUTOMATIC
DEFINE PAD _qsfo6j4 OF _msysmenu PROMPT "System" COLOR SCHEME 3
DEFINE PAD _qsfo6je OF _msysmenu PROMPT "Knowledge Base" COLOR SCHE
=> ME 3
32: => 3
ON PAD _qsfo6j4 OF _msysmenu ACTIVATE POPUP SYSTEM
ON PAD _qsfo6je OF _msysmenu ACTIVATE POPUP knowledgeb
ON SELECTION PAD _qsfo6jm OF _msysmenu DO _quit
DEFINE POPUP SYSTEM MARGIN RELATIVE SHADOW COLOR SCHEME 4 F1"
DEFINE BAR _mst_help OF SYSTEM PROMPT "\<help
DEFINE BAR 2 OF SYSTEM PROMPT "\<-
DEFINE BAR 3 OF SYSTEM PROMPT "\<Backup"
DEFINE BAR 4 OF SYSTEM PROMPT "\<Restore"
ON SELECTION BAR 3 OF SYSTEM DO backup
ON SELECTION BAR 4 OF SYSTEM DO RESTORE
DEFINE POPUP knowledgeb MARGIN RELATIVE SHADOW COLOR SCHEME 4
DEFINE BAR 1 OF knowledgeb PROMPT "Knowledge Base Area"
DEFINE BAR 2 OF knowledgeb PROMPT "Question - Data Dictionary"
ON SELECTION BAR 1 OF knowledgeb DO Kb.spr
ON SELECTION BAR 2 OF knowledgeb DO dd.spr
*: EOF: KBMENU.ac2
```



```

117:
118:
119:
120:
121:
=>
122:
=>
123:
=>
124:
=>
125:
=>
126:
127:
128:
129:
130:
131:
132:
133:
134:
135:
136:
137:
138:
139:
140:
141:
142:
143:
144:
145:
146:
147:
148:
149:
150:
151:
152:
153:
154:
155:
156:
157:
158:
159:
160:
161:
162:
163:
164:
165:
166:
167:
168:
169:
170:
171:
172:
173:
174:
175:
176:
177:

*
*
*
*
*
*
#REGION 1
IF WVISIBLE("w_backup")
  ACTIVATE WINDOW w_backup SAME
ELSE
  ACTIVATE WINDOW w_backup NOSHOW
ENDIF
@ 5.083,26.375 SAY "To drive: " ;
FONT "Terminal", 8
@ 4.917,37.375 GET mdrive ;
PICTURE "a" ;
FROM drivearray ;
SIZE 1.500,12.500 ;
DEFAULT 1 ;
FONT "Terminal", 8 ;
WHEN _qsf0ko96c( ) ;
VALID _qsf0ko98q( )
@ 8.667,26.125 SAY "Directory:" ;
FONT "Terminal", 8
@ 0.917,3.125 SAY MESSAGE ;
SIZE 1.333,42.500 ;
FONT "Terminal", 8
@ 8.333,37.500 GET mpath ;
PICTURE "a" ;
FROM patharray ;
SIZE 1.500,12.500 ;
DEFAULT 1 ;
FONT "Terminal", 8 ;
VALID _qsf0ko96c( )
@ 12.917,26.500 GET maction ;
PICTURE "a*HT \1\<Backup;\<Cancel" ;
SIZE 2.083,9.625,2.500 ;
DEFAULT 1 ;
FONT "Terminal", 8 ;
VALID _qsf0ko9hk( )
@ 3.750,3.000 GET mfile ;
PICTURE "a&n" ;
FROM filearray ;
SIZE 14.000,21.375 ;
DEFAULT 1 ;
FONT "Terminal", 8 ;
VALID _qsf0ko9lv( )
@ 18.667,3.125 SAY "Backup file name: " ;
FONT "Terminal", 8
@ 18.583,22.375 GET mfname ;
SIZE 1.083,27.000 ;
DEFAULT " " ;
FONT "Terminal", 8
IF NOT WVISIBLE("w_backup")
  ACTIVATE WINDOW w_backup

```

BACKUP/Windows Screen Layout

```

178:
179:
180:
181:
182:
183:
184:
185:
186:
187:
188:
189:
190:
191:
192:
193:
194:
195:
196:
=>
197:
=>
198:
=>
199:
=>
200:
=>
201:
202:
203:
204:
205:
206:
207:
208:
209:
210:
211:
212:
213:
214:
=>
215:
=>
216:
=>
217:
=>
218:
=>
219:
220:
221:
222:
=> e,
223:
224:
225:
226:
227:
228:
229:
230:
231:
232:

L-ENDIF
READ CYCLE MODAL
RELEASE WINDOW w_backup
#REGION 0
SET readborder &rborder
IF m.talkstat = "ON"
  SET TALK ON
ENDIF
IF m.compstat = "ON"
  SET COMPATIBLE ON
ENDIF
*
*
*
*
*
*
#REGION 1
SET DEFAULT TO (m.olddrive + m.oldpath)
RETURN
*****
*****
CASE _DOS
*
*
*
*
*
*
#REGION 1
PRIVATE mfname, mpath, olddrive, predrive, oldpath, maction, mdriv
mfiles
DO CASE
CASE PARAMETERS() = 0
  m.message = ""
  m.wildcard = ".*.zip"
  mfname = "BU" + STRTRAN(DTOC(DATE()),"/","")
CASE PARAMETERS() = 1 OR EMPTY(m.wildcard)
  m.wildcard = ".*.zip"
  mfname = "BU" + STRTRAN(DTOC(DATE()),"/","")
CASE PARAMETERS() = 2 OR EMPTY(m.filename)
  mfname = "BU" + STRTRAN(DTOC(DATE()),"/","")

```

BACKUP/MS-DOS Setup Code - SECTION 1

```

233: OTHERWISE
234:   mfname = filename
235: END CASE
236:
237: #REGION 0
238: REGIONAL m.curraea, m.talkstat, m.compstat
239:
240: IF SET("TALK") = "ON"
241:   SET TALK OFF
242:   m.talkstat = "ON"
243: ELSE
244:   m.talkstat = "OFF"
245: END IF
246: m.compstat = SET("COMPATIBLE")
247: SET COMPATIBLE FOXPLUS
248:
249: *
250: => |
251: => |
252: * |
253: => |
254: => |
255: * |
256:
257: IF NOT WEXIST("w backup") ;
258:   OR UPPER(WTITLE("w backup")) == "w backup.pjx" ;
259:   OR UPPER(WTITLE("w backup")) == "w backup.scx" ;
260:   OR UPPER(WTITLE("w backup")) == "w backup.mnx" ;
261:   OR UPPER(WTITLE("w backup")) == "w backup.prg" ;
262:   OR UPPER(WTITLE("w backup")) == "w backup.frx" ;
263:   OR UPPER(WTITLE("w backup")) == "w backup.qpr" ;
264:   DEFINE WINDOW w_backup ;
265:     FROM INT((SROW()-18)/2), INT((SCOL()-61)/2) ;
266:     TO INT((SROW()-18)/2)+17, INT((SCOL()-61)/2)+60 ;
267:     NOFLOAT ;
268:     NOCLOSE ;
269:     SHADOW ;
270:     NOMINIMIZE ;
271:     DOUBLE ;
272:     COLOR SCHEME 5
273:   END IF
274:
275: *
276: => |
277: => |
278: * |
279: => |
280: => |
281: * |
282:
283: #REGION 1
284: m.olddrive = SET("DEFAULT")
285: m.prevdrrive = 1
286: m.olddpath = CURDIR()
287: maction = 1
288:
289: DECLARE drivearray[1,1]
290: mdrive = 1
291: DO newdrivepop
292:
293: DECLARE patharray[1,1]
294: mpath = 1
295: DO newpathpop
296:
297: DECLARE filearray[1,1]
298: mfiles = 1
299: DO newfilepop
300:
301: * = closefiles()
302:
303: *
304: *
305: *
306: *
307: *
308: => |
309: => |
310: * |
311: => |
312: * |
313:
314: #REGION 1
315: IF WVISIBLE("w backup")
316:   ACTIVATE WINDOW w_backup SAME
317: ELSE
318:   ACTIVATE WINDOW w_backup NOSHOW
319: END IF
320: @ 3,29 SAY "To drive: " ;
321:   SIZE 1,10, 0
322: @ 2,40 GET mdrive ;
323:   PICTURE "@#" ;
324:   FROM drivearray ;
325:   SIZE 3,18 ;
326:   DEFAULT 1 ;
327:   WHEN _qsfkooag9() ;
328:     VALID _qsfkooaid() ;
329:     COLOR SCHEME 5, 6
330: @ 6,29 SAY "Directory:" ;
331:   SIZE 1,10, 0
332: @ 0,1 SAY MESSAGE ;
333:   SIZE 1,40
334: @ 5,40 GET mpath ;
335:   PICTURE "@#" ;
336:   FROM patharray ;
337:   SIZE 3,18 ;
338:   DEFAULT 1 ;
339:   VALID _qsfkooanu() ;
340:     COLOR SCHEME 5, 6
341: @ 9,45 GET maction ;
342:   PICTURE "@*VT \\\<Back;\\<Cancel" ;
343:   SIZE 1,8,1 ;
344:   DEFAULT 1 ;
345:   VALID _qsfkooaqv()
346: @ 2,1 GET mfile ;
347:   PICTURE "@&N" ;
348:   FROM filearray ;
349:
350: BACKUP/MS-DOS Setup Code - SECTION 2
351:
352: *
353: *
354: *
355: *
356: *
357: *
358: *
359: *
360: *
361: *
362: *
363: *
364: *
365: *
366: *
367: *
368: *
369: *
370: *
371: *
372: *
373: *
374: *
375: *
376: *
377: *
378: *
379: *
380: *
381: *
382: *
383: *
384: *
385: *
386: *
387: *
388: *
389: *
390: *
391: *
392: *
393: *
394: *
395: *
396: *
397: *
398: *
399: *
400: *
401: *
402: *
403: *
404: *
405: *
406: *
407: *
408: *
409: *
410: *
411: *
412: *
413: *
414: *
415: *
416: *
417: *
418: *
419: *
420: *
421: *
422: *
423: *
424: *
425: *
426: *
427: *
428: *
429: *
430: *
431: *
432: *
433: *
434: *
435: *
436: *
437: *
438: *
439: *
440: *
441: *
442: *
443: *
444: *
445: *
446: *
447: *
448: *
449: *
450: *
451: *
452: *
453: *
454: *
455: *
456: *
457: *
458: *
459: *
460: *
461: *
462: *
463: *
464: *
465: *
466: *
467: *
468: *
469: *
470: *
471: *
472: *
473: *
474: *
475: *
476: *
477: *
478: *
479: *
480: *
481: *
482: *
483: *
484: *
485: *
486: *
487: *
488: *
489: *
490: *
491: *
492: *
493: *
494: *
495: *
496: *
497: *
498: *
499: *
500: *
501: *
502: *
503: *
504: *
505: *
506: *
507: *
508: *
509: *
510: *
511: *
512: *
513: *
514: *
515: *
516: *
517: *
518: *
519: *
520: *
521: *
522: *
523: *
524: *
525: *
526: *
527: *
528: *
529: *
530: *
531: *
532: *
533: *
534: *
535: *
536: *
537: *
538: *
539: *
540: *
541: *
542: *
543: *
544: *
545: *
546: *
547: *
548: *
549: *
550: *
551: *
552: *
553: *
554: *
555: *
556: *
557: *
558: *
559: *
560: *
561: *
562: *
563: *
564: *
565: *
566: *
567: *
568: *
569: *
570: *
571: *
572: *
573: *
574: *
575: *
576: *
577: *
578: *
579: *
580: *
581: *
582: *
583: *
584: *
585: *
586: *
587: *
588: *
589: *
590: *
591: *
592: *
593: *
594: *
595: *
596: *
597: *
598: *
599: *
600: *
601: *
602: *
603: *
604: *
605: *
606: *
607: *
608: *
609: *
610: *
611: *
612: *
613: *
614: *
615: *
616: *
617: *
618: *
619: *
620: *
621: *
622: *
623: *
624: *
625: *
626: *
627: *
628: *
629: *
630: *
631: *
632: *
633: *
634: *
635: *
636: *
637: *
638: *
639: *
640: *
641: *
642: *
643: *
644: *
645: *
646: *
647: *
648: *
649: *
650: *
651: *
652: *
653: *
654: *
655: *
656: *
657: *
658: *
659: *
660: *
661: *
662: *
663: *
664: *
665: *
666: *
667: *
668: *
669: *
670: *
671: *
672: *
673: *
674: *
675: *
676: *
677: *
678: *
679: *
680: *
681: *
682: *
683: *
684: *
685: *
686: *
687: *
688: *
689: *
690: *
691: *
692: *
693: *
694: *
695: *
696: *
697: *
698: *
699: *
700: *
701: *
702: *
703: *
704: *
705: *
706: *
707: *
708: *
709: *
710: *
711: *
712: *
713: *
714: *
715: *
716: *
717: *
718: *
719: *
720: *
721: *
722: *
723: *
724: *
725: *
726: *
727: *
728: *
729: *
730: *
731: *
732: *
733: *
734: *
735: *
736: *
737: *
738: *
739: *
740: *
741: *
742: *
743: *
744: *
745: *
746: *
747: *
748: *
749: *
750: *
751: *
752: *
753: *
754: *
755: *
756: *
757: *
758: *
759: *
760: *
761: *
762: *
763: *
764: *
765: *
766: *
767: *
768: *
769: *
770: *
771: *
772: *
773: *
774: *
775: *
776: *
777: *
778: *
779: *
780: *
781: *
782: *
783: *
784: *
785: *
786: *
787: *
788: *
789: *
790: *
791: *
792: *
793: *
794: *
795: *
796: *
797: *
798: *
799: *
800: *
801: *
802: *
803: *
804: *
805: *
806: *
807: *
808: *
809: *
810: *
811: *
812: *
813: *
814: *
815: *
816: *
817: *
818: *
819: *
820: *
821: *
822: *
823: *
824: *
825: *
826: *
827: *
828: *
829: *
830: *
831: *
832: *
833: *
834: *
835: *
836: *
837: *
838: *
839: *
840: *
841: *
842: *
843: *
844: *
845: *
846: *
847: *
848: *
849: *
850: *
851: *
852: *
853: *
854: *
855: *
856: *
857: *
858: *
859: *
860: *
861: *
862: *
863: *
864: *
865: *
866: *
867: *
868: *
869: *
870: *
871: *
872: *
873: *
874: *
875: *
876: *
877: *
878: *
879: *
880: *
881: *
882: *
883: *
884: *
885: *
886: *
887: *
888: *
889: *
890: *
891: *
892: *
893: *
894: *
895: *
896: *
897: *
898: *
899: *
900: *
901: *
902: *
903: *
904: *
905: *
906: *
907: *
908: *
909: *
910: *
911: *
912: *
913: *
914: *
915: *
916: *
917: *
918: *
919: *
920: *
921: *
922: *
923: *
924: *
925: *
926: *
927: *
928: *
929: *
930: *
931: *
932: *
933: *
934: *
935: *
936: *
937: *
938: *
939: *
940: *
941: *
942: *
943: *
944: *
945: *
946: *
947: *
948: *
949: *
950: *
951: *
952: *
953: *
954: *
955: *
956: *
957: *
958: *
959: *
960: *
961: *
962: *
963: *
964: *
965: *
966: *
967: *
968: *
969: *
970: *
971: *
972: *
973: *
974: *
975: *
976: *
977: *
978: *
979: *
980: *
981: *
982: *
983: *
984: *
985: *
986: *
987: *
988: *
989: *
990: *
991: *
992: *
993: *
994: *
995: *
996: *
997: *
998: *
999: *
1000: *

```

```

350: SIZE 11,26 ;
351: DEFAULT 1 ;
352: VALID _qsfo96c ;
353: COLOR SCHEME 6
354: @ 14,1 SAY "Backup file name: " ;
355: SIZE 1,18,0
356: @ 14,19 GET mfname ;
357: SIZE 1,39 ;
358: DEFAULT " "
359:
360: IF NOT WVISIBLE("w_backup")
361:   ACTIVATE WINDOW w_backup
362: ENDIF
363:
364: READ CYCLE MODAL
365:
366: RELEASE WINDOW w_backup
367:
368: #REGION 0
369: IF m.talkstat = "ON"
370:   SET TALK ON
371: ENDIF
372: IF m.compstat = "ON"
373:   SET COMPATIBLE ON
374: ENDIF
375:
376: *
377: *
378: *
379: *
380: *
381: *
382: *
383: *
384: *
385: #REGION 1
386: SET DEFAULT TO (m.olddrive + m.oldpath)
387: RETURN
388: *****
389: *****
390: *****
391: *****
392: *****
393: *****
394: *****
395: *****
396: *****
397: *****
398: *****
399: *****
400: *****
401: *****
402: *****
403: *****
404: *****
405: *****
406: *****
407: *****
408: *****
409: *****
410: FUNCTION _qsfo96c    && mdrive WHEN

```

_qsfo96c	mdrive WHEN	Record Number: 3
Function Origin:		
From Platform:	Windows	
From Screen:	BACKUP,	
Variable:	mdrive	
Called By:	WHEN Clause	
Object Type:	Popup	
Snippet Number:	1	

```

411: #REGION 1
412: m.prevdrive = mdrive
413: *
414: *
415: *
416: *
417: *
418: *
419: *
420: *
421: *
422: *
423: *
424: *
425: *
426: *
427: *
428: *
429: *
430: *
431: *
432: *
433: *
434: *
435: *
436: *
437: *
438: *
439: *
440: *
441: *
442: *
443: *
444: *
445: *
446: *
447: *
448: *
449: *
450: *
451: *
452: *
453: *
454: *
455: *
456: *
457: *
458: *
459: *
460: *
461: *
462: *
463: *
464: *
465: *
466: *
467: *
468: *
469: *
470: *
471: *
472: *
473: *
474: *
475: *

```

_qsfo980	mdrive VALID	Record Number: 3
Function Origin:		
From Platform:	Windows	
From Screen:	BACKUP,	
Variable:	mdrive	
Called By:	VALID Clause	
Object Type:	Popup	
Snippet Number:	2	

_qsfo909ec	mpath VALID	Record Number: 6
Function Origin:		
From Platform:	Windows	
From Screen:	BACKUP,	
Variable:	mpath	
Called By:	VALID Clause	
Object Type:	Popup	
Snippet Number:	3	

```

FUNCTION _qsfo909ec    && mpath VALID
#REGION 1
m.newdefault = pathstring()
SET DEFAULT TO (m.newdefault)
DO newpathpop
SHOW GETS

```

```

476: *
477: *
478: *
479: *
480: *
481: *
482: *
483: *
484: *
485: *
486: *
487: *
488: *
489: *
490: *
491: *
492: *
493: *
494: *
495: *
496: *
497: *
498: *
499: *
500: *
501: *
502: *
503: *
504: *
505: *
506: *
507: *
508: *
509: *
510: *
511: *
512: *
513: *
514: *
515: *
516: *
517: *
518: *
519: *
520: *
521: *
522: *
523: *
524: *
525: *
526: *
527: *
528: *
529: *
530: *
531: *
532: *
533: *
534: *
535: *
536: *
537: *
538: *
539: *
540: *

FUNCTION _qsfoK09HK      maction VALID
Function Origin:
From Platform: Windows
From Screen: BACKUP,
Variable: maction
Called By: VALID Clause
Object Type: Push Button
Snippet Number: 4
Record Number: 7

FUNCTION _qsfoK09HK      && maction VALID
#REGION 1
DO CASE
CASE maction = 1
pkzip = .T.
IF FILE(mfname)
mdel = yesno( mfname + " already exists, overwrite it?", "Yes"
=> "Cancel")
IF mdel
DELETE FILE &mfname
ELSE
pkzip = .F.
ENDIF
ENDIF
IF pkzip
DO pkzip
ENDIF
OTHERWISE
ENDCASE

FUNCTION _qsfoK09LV      mfile VALID
Function Origin:
From Platform: Windows
From Screen: BACKUP,
Variable: mfile
Called By: VALID Clause
Object Type: List
Snippet Number: 5
Record Number: 8

FUNCTION _qsfoK09LV      && mfile VALID
#REGION 1
mnewfile = filearray[mfile,1]
IF " " $ mnewfile
mnewpath = SUBSTR(mnewfile,2,LEN(mnewfile)-2)
SET DEFA TO (mnewpath)
DO newpathpop
DO newfilepop
SHOW GETS
ELSE
mfname = mnewfile
SHOW GETS
ENDIF

```

```

541: *
542: *
543: *
544: *
545: *
546: *
547: *
548: *
549: *
550: *
551: *
552: *
553: *
554: *
555: *
556: *
557: *
558: *
559: *
560: *
561: *
562: *
563: *
564: *
565: *
566: *
567: *
568: *
569: *
570: *
571: *
572: *
573: *
574: *
575: *
576: *
577: *
578: *
579: *
580: *
581: *
582: *
583: *
584: *
585: *
586: *
587: *
588: *
589: *
590: *
591: *
592: *
593: *
594: *
595: *
596: *
597: *
598: *
599: *
600: *
601: *
602: *
603: *
604: *
605: *

FUNCTION _qsfoK0AG9      mdrive WHEN
Function Origin:
From Platform: MS-DOS
From Screen: BACKUP,
Variable: mdrive
Called By: WHEN Clause
Object Type: Popup
Snippet Number: 6
Record Number: 14

FUNCTION _qsfoK0AID      mdrive VALID
Function Origin:
From Platform: MS-DOS
From Screen: BACKUP,
Variable: mdrive
Called By: VALID Clause
Object Type: Popup
Snippet Number: 7
Record Number: 14

*Switch to the selected drive
FUNCTION _qsfoK0AID      && mdrive VALID
#REGION 1
PRIVATE newdrive,mready

*Convert the popup bar number into the matching drive name
m.newdrive = drivearray[mdrive]

IF UPPER(m.newdrive) $ "A:B:"
mready = yesno("Please insert disk into drive " + m.newdrive, "rea
=> dy",
"Cancel")
ELSE
mready = .T.
ENDIF
IF mready
*Go there and reset all the other popups to match
SET DEFAULT TO (m.newdrive)
DO newpathpop
DO newfilepop
ELSE
mdrive = m.prevdribe
m.newdrive = drivearray[mdrive]
ENDIF
SHOW GETS

FUNCTION _qsfoK0ANU      mpath VALID
Function Origin:
From Platform: MS-DOS
From Screen: BACKUP,
Record Number: 17

```

```

606: *
607: * Variable: mpath
608: * Called By: VALID Clause
609: * Object Type: Popup
610: * Snippet Number: 8
611: *
612: *
613: * FUNCTION _qsfokoauy && mpath VALID
614: * #REGION 1_
615: * m.newdefault = pathstring()
616: * SET DEFAULT TO (m.newdefault)
617: * DO newpathpop
618: * DO newfilepop
619: * SHOW GETS
620: *
621: *
622: *
623: *
624: *
625: *
626: *
627: *
628: *
629: *
630: *
631: *
632: *
633: *
634: *
635: *
636: * FUNCTION _qsfokoauy && maction VALID
637: * #REGION 1_
638: * DO CASE
639: * CASE maction = 1
640: *
641: *     pkzip = .T.
642: *     IF FILE(mfname)
643: *         mdel = yesno( mfname + " already exists, overwrite it?", "Yes"
644: *         IF mdel
645: *             DELETE FILE &mfname
646: *         ELSE
647: *             pkzip = .F.
648: *         ENDIF
649: *     ENDIF
650: *     IF pkzip
651: *         DO pkzip
652: *     ENDIF
653: * OTHERWISE
654: *
655: *
656: *
657: *
658: *
659: *
660: *
661: *
662: *
663: *
664: *
665: *
666: *
667: *
668: *
669: *
670: *

```

Variable: mpath
Called By: VALID Clause
Object Type: Popup
Snippet Number: 8

Function Origin:
From Platform: MS-DOS
From Screen: BACKUP,
Variable: maction
Called By: VALID Clause
Object Type: Push Button
Snippet Number: 9

Record Number: 18

Function Origin:
From Platform: MS-DOS
From Screen: BACKUP,
Variable: mfile
Called By: VALID Clause
Object Type: List
Snippet Number: 10

Record Number: 19

```

671: *
672: * FUNCTION _qsfokoauy && mfile VALID
673: * #REGION 1_
674: * mnewfile = filearray(mfile,1)
675: * IF "% $ mnewfile
676: *     mnewpath = SUBSTR(mnewfile,2,LEN(mnewfile)-2)
677: *     SET DEFA TO (mnewpath)
678: *     DO newpathpop
679: *     DO newfilepop
680: *     SHOW GETS
681: * ELSE
682: *     mfname = mnewfile
683: *     SHOW GETS
684: * ENDIF
685: *
686: *
687: *
688: *
689: *
690: *
691: *
692: *
693: *
694: *
695: *
696: *
697: *
698: *
699: *
700: *
701: *
702: *
703: *
704: *
705: *
706: *
707: *
708: *
709: *
710: *
711: *
712: *
713: *
714: *
715: *
716: *
717: *
718: *
719: *
720: *
721: *
722: *
723: *
724: *
725: *
726: *
727: *
728: *
729: *
730: *
731: *
732: *
733: *
734: *
735: *
736: *

```

BACKUP/MS-DOS Supporting Procedures and Functions

BACKUP Procedure NEWDRIVEPOP

```

PROCEDURE newdrivepop
DO CASE
CASE DOS
*****
* Create a popup with each of the legal drive names
* The popup will be based on an array of the drive names
PRIVATE olddefault, olderror, drivename, ERROR
* We will change drives, so remember where we started
m.olddefault = SET( "DEFAULT" )
* To test for legal drives this program SET DEFAULT TO each drive
* If no error occurs the drive name will be added to an array
* Create the error trap
m.olderror = ON( "ERROR" )
m.error = .F.
ON ERROR m.error = .T.
* Create the array of legal drive names
DECLARE drivearray[ 1 ]
drivearray[ 1 ] = ""
* Loop from A to Z
m.drivename = "A"
FOR i = 1 TO 26
* Try to switch to the drive
SET DEFAULT TO (m.drivename)
* If it worked
IF NOT m.error
* Add the name to the last element in the array

```

D-6

164PRINT

```

737: drivearray[ ALEN( DriveArray ) ] = m.driveName + ":"
738:
739: * Add another element at the end of the array
740: DECLARE drivearray[ ALEN( DriveArray ) + 1 ]
741:
742: -ENDIF
743:
744: * Change to the next letter in the alphabet
745: m.driveName = CHR( ASC( m.driveName ) + 1 )
746:
747: * Reset the error trap
748: m.error = .F.
749:
750: -NEXT
751:
752: * If the first element is empty, no drives were found
753: IF EMPTY( drivearray[ 1 ] )
754:   SHOW GET mdrive disabled
755: -ELSE
756:   * Drives were found so cut off the last empty element
757:   * added to the array in the loop
758:   DECLARE drivearray[ ALEN( DriveArray ) - 1 ]
759: -ENDIF
760:
761: * Reset the error trap and return to home
762: ON ERROR &olderror
763: SET DEFAULT TO (m.olddefault)
764:
765: * Initialize the popup variable to the element in the
766: * drive array which contains the current drive
767: mdrive = ASCAN( drivearray, m.olddefault )
768: -RETURN
769:
770: *****
771: -CASE WINDOWS
772: *****
773: * Create a popup with each of the legal drive names
774: * The popup will be based on an array of the drive names
775: PRIVATE olddefault, olderror, driveName, ERROR
776:
777: * We will change drives, so remember where we started
778: m.olddefault = SET( "DEFAULT" )
779:
780: * To test for legal drives this program SET DEFAULT TO each drive
781: * If no error occurs the drive name will be added to an array
782:
783: * Create the error trap
784: m.olderror = ON( "ERROR" )
785: m.error = .F.
786: ON ERROR m.error = .T.
787:
788: * Create the array of legal drive names
789: DECLARE drivearray[ 3 ]
790: drivearray[ 1 ] = "A"
791: drivearray[ 2 ] = "B"
792: drivearray[ 3 ] = ""
793:
794: * Loop from C to Z
795: m.driveName = "C"
796: FOR i = 3 TO 26
797:
798:   * Try to switch to the drive
799:   SET DEFAULT TO (m.driveName)
800:
801:   * If it worked
802:   IF NOT m.error

```

```

803: * Add the name to the last element in the array
804: drivearray[ ALEN( DriveArray ) ] = m.driveName + ".n"
805:
806: * Add another element at the end of the array
807: DECLARE drivearray[ ALEN( DriveArray ) + 1 ]
808:
809:
810:
811:
812: * Change to the next letter in the alphabet
813: m.driveName = CHR( ASC( m.driveName ) + 1 )
814:
815: * Reset the error trap
816: m.error = .F.
817:
818:
819: * If the first element is empty, no drives were found
820: IF EMPTY( drivearray[ 1 ] )
821:     SHOW GET mdrive disabled
822:
823: * Drives were found so cut off the last empty element
824: * added to the array in the loop
825: DECLARE drivearray[ ALEN( DriveArray ) - 1 ]
826:
827:
828: * Reset the error trap and return to home
829: ON ERROR &olderror
830: SET DEFAULT TO (m.olddefault)
831:
832: * Initialize the popup variable to the element in the
833: * drive array which contains the current drive
834: mdrive = ASCAN( drivearray, m.olddefault )
835:
836:
837: RETURN
838:
839: *****
840:
841:
842:
843:
844:
845:
846:
847:
848:
849:
850:
851:
852:
853:
854:
855:
856:
857:
858:
859:
860:
861:
862:
863:
864:
865:
866:
867:
868:

```

```

869:
870:
871:
872:
873:
874:
875:
876:
877:
878:
879:
880:
881:
882:
883:
884:
885:
886:
887:
888:
889:
890:
891:
892:
893:
894:
895:
896:
897:
898:
899:
900:
901:
902:
903:
904:
905:
906:
907:
908:
909:
910:
911:
912:
913:
914:
915:
916:
917:
918:
919:
920:
921:
922:
923:
924:
925:
926:
927:
928:
929:
930:
931:
932:
933:
934:
935:
936:
937:
938:
939:
940:
941:
942:
943:
944:
945:
946:
947:
948:
949:
950:
951:
952:
953:
954:
955:
956:
957:
958:
959:
960:
961:
962:
963:
964:
965:
966:
967:
968:
969:
970:
971:
972:
973:
974:
975:
976:
977:
978:
979:
980:
981:
982:
983:
984:
985:
986:
987:
988:
989:
990:
991:
992:
993:
994:
995:
996:
997:
998:
999:
1000:

```

```

1001:
1002:
1003:
1004:
1005:
1006:
1007:
1008:
1009:
1010:
1011:
1012:
1013:
1014:
1015:
1016:
1017:
1018:
1019:
1020:
1021:
1022:
1023:
1024:
1025:
1026:
1027:
1028:
1029:
1030:
1031:
1032:
1033:
1034:
1035:
1036:
1037:
1038:
1039:
1040:
1041:
1042:
1043:
1044:
1045:
1046:
1047:
1048:
1049:
1050:
1051:
1052:
1053:
1054:
1055:
1056:
1057:
1058:
1059:
1060:
1061:
1062:
1063:
1064:
1065:
1066:
1067:
1068:
1069:
1070:
1071:
1072:
1073:
1074:
1075:
1076:
1077:
1078:
1079:
1080:
1081:
1082:
1083:
1084:
1085:
1086:
1087:
1088:
1089:
1090:
1091:
1092:
1093:
1094:
1095:
1096:
1097:
1098:
1099:
1100:

```

```

869: m.dircount = 1
870:
871: * Continue as long as there is a pair of slashes
872: * Surrounding the next part of the string
873: DO WHILE AT( "\", m.dirstring, m.dircount ) <> 0 AND ;
874:   AT( "\", m.dirstring, m.dircount + 1 ) <> 0
875:
876: * Add another element at the end of the array
877: DECLARE patharray[ m.dircount + 1 ]
878:
879: * Cut out the next set of characters between the slashes
880: m.firstchar = AT( "\", m.dirstring, m.dircount ) + 1
881:
882: m.pathlength = AT( "\", m.dirstring, m.dircount + 1 ) ;
883:   - m.firstchar
884:
885: * And add them to the next array element
886: patharray[ m.dircount + 1 ] = SUBSTR( m.dirstring, ;
887:   m.firstchar, m.pathlength )
888:
889: * Look for the next directory name in the path string
890: m.dircount = m.dircount + 1
891:
892: ENDDO
893:
894: * Point the popup variable at the last element in the array
895: mpath = ALEN( patharray )
896: RETURN
897:
898: *****
899:
900: CASE WINDOWS
901: *****
902: * Create a popup with one bar for each subdirectory
903: * in the current path
904: PRIVATE dirstring, dircount
905:
906: * Base the popup on an array with one element for
907: * each subdirectory in the current path
908:
909: * Start the array with the current drive
910: DECLARE patharray[ 1 ]
911: patharray[ 1 ] = SET( "DEFAULT" )
912:
913: * Get the current path string
914: m.dirstring = CURDIR()
915:
916: * If we are not in the root directory
917: IF LEN( m.dirstring ) > 1
918:
919: * Start parsing the path string for each directory name
920: m.dircount = 1
921:
922: * Continue as long as there is a pair of slashes
923: * Surrounding the next part of the string
924: DO WHILE AT( "\", m.dirstring, m.dircount ) <> 0 AND ;
925:   AT( "\", m.dirstring, m.dircount + 1 ) <> 0
926:
927: * Add another element at the end of the array
928: DECLARE patharray[ m.dircount + 1 ]
929:
930: * Cut out the next set of characters between the slashes
931: m.firstchar = AT( "\", m.dirstring, m.dircount ) + 1
932:
933: m.pathlength = AT( "\", m.dirstring, m.dircount + 1 ) ;
934:   - m.firstchar

```

```

935:
936: * And add them to the next array element
937: patharray[ m.dircount + 1 ] = SUBSTR( m.dirstring, ;
938:   m.firstchar, m.pathlength )
939:
940: * Look for the next directory name in the path string
941: m.dircount = m.dircount + 1
942:
943: ENDDO
944:
945: * Point the popup variable at the last element in the array
946: mpath = ALEN( patharray )
947: RETURN
948:
949: *****
950:
951: ENDCASE
952:
953: *
954: *
955: *
956: *
957: *
958: *
959:
960: PROCEDURE newfilepop
961:
962: DO CASE
963: CASE DOS
964: *****
965:
966: * Create a popup with all of the file names and its subdirection i
967: => n the current directory
968: * This will be based on an array as well
969:
970: * Create an array with all the files matching the current wild car
971: => d
972:
973: * ADIR() creates an array with 5 columns.
974:
975: PRIVATE startsort
976: * Fill an array with directory names only
977: =ADIR( dirarray, "", "n" )
978: SIZE = ALEN( dirarray, 1 )
979: IF dirarray[ 1, 1 ] = "."
980:   =ADEL( dirarray, 1 )
981:   SIZE = SIZE - 1
982: DECLARE dirarray[ size, 5 ]
983:
984: * We must be in the root directory "\ "
985: * Add one more row to the directory array
986: SIZE = SIZE + 1
987: DECLARE dirarray[ SIZE, 5 ]
988:
989: * Push all the rows down by one
990: =AINS( dirarray, 1 )
991:
992: * Fill in the first directory name in the array
993: * a bug in the popups makes it refuse to display a
994: * prompt of "\", use "\\ " to make one \ appear
995: * even then the bar will automatically be non-selectable
996: * which in this case is fine
997: dirarray[ 1, 1 ] = "\\ "
998:
999: * Start the sort after the root name
1000:
1001: ENDEF

```

BACKUP Procedure NEWFILEPOP


```

999:
1000:
1001:
1002:
1003:
1004:
1005:
1006:
1007:
1008:
1009:
1010:
1011:
1012:
1013:
1014:
1015:
1016:
1017:
1018:
1019:
1020:
1021:
1022:
1023:
1024:
1025:
1026:
1027:
1028:
1029:
1030:
1031:
1032:
1033:
1034:
1035:
1036:
1037:
1038:
1039:
1040:
1041:
1042:
1043:
1044:
1045:
1046:
1047:
1048:
1049:
1050:
1051:
1052:
1053:
1054:
1055:
1056:
1057:
1058:
1059:
1060:
1061:
1062:

IF ALEN( dirarray, 1 ) > 2
    * Sort the array starting at the starting row
    =ASORT( dirarray, AELEMENT( dirarray, 2, 1 ) )
ENDIF
FOR i = 1 TO ALEN(dirarray,1)
    dirarray[i,1] = "[" + dirarray[i,1] + "]"
ENDFOR

IF ADIR(filearray, m.wildcard) = 0
    SIZE = ALEN(dirarray,1)
    DECLARE filearray[size,5]
    =ACOPY(dirarray, filearray)
ELSE
    stop = ALEN(dirarray,1)
    FOR i = 1 TO stop
        SIZE = ALEN(filearray,1)
        DECLARE filearray[size + 1,5]
        =AINS(filearray,1)
        filearray[1,1] = dirarray(alen(dirarray,1),1)
        IF ALEN(dirarray,1) > 1
            DECLARE dirarray(alen(dirarray,1)-1,5)
        ENDIF
    ENDFOR
ENDIF
mfile = 1
RETURN
*****
CASE WINDOWS
*****
* Create a popup with all of the file names and its subdirection i
  the current directory
* This will be based on an array as well
* Create an array with all the files matching the current wild car
=> d
1035:
1036:
1037:
1038:
1039:
1040:
1041:
1042:
1043:
1044:
1045:
1046:
1047:
1048:
1049:
1050:
1051:
1052:
1053:
1054:
1055:
1056:
1057:
1058:
1059:
1060:
1061:
1062:

PRIVATE startsort
* Fill an array with directory names only
=ADIR( dirarray, "", "d")
SIZE = ALEN(dirarray,1)
IF dirarray[1,1] = "."
    =ADEL(dirarray,1)
    SIZE = SIZE - 1
    DECLARE dirarray[size,5]
ELSE
    * We must be in the root directory "\"
    * Add one more row to the directory array
    SIZE = SIZE + 1
    DECLARE dirarray[ SIZE, 5 ]
    * Push all the rows down by one
    =AINS( dirarray, 1 )
    * Fill in the first directory name in the array
    * a bug in the popups makes it refuse to display a
    * prompt of "\", use "\\" to make one \ appear
    * even then the bar will automatically be non-selectable
    * which in this case is fine
    dirarray[1,1] = "\\"
    * Start the sort after the root name
ENDIF

```

```

1063:
1064:
1065:
1066:
1067:
1068:
1069:
1070:
1071:
1072:
1073:
1074:
1075:
1076:
1077:
1078:
1079:
1080:
1081:
1082:
1083:
1084:
1085:
1086:
1087:
1088:
1089:
1090:
1091:
1092:
1093:
1094:
1095:
1096:
1097:
1098:
1099:
1100:
1101:
1102:
1103:
1104:
1105:
1106:
1107:
1108:
1109:
1110:
1111:
1112:
1113:
1114:
1115:
1116:
1117:
1118:
1119:
1120:
1121:
1122:
1123:
1124:
1125:
1126:
1127:
1128:

IF ALEN( dirarray, 1 ) > 2
    * Sort the array starting at the starting row
    =ASORT( dirarray, AELEMENT( dirarray, 2, 1 ) )
ENDIF
FOR i = 1 TO ALEN(dirarray,1)
    dirarray[i,1] = "[" + dirarray[i,1] + "]"
ENDFOR

IF ADIR(filearray, m.wildcard) = 0
    SIZE = ALEN(dirarray,1)
    DECLARE filearray[size,5]
    =ACOPY(dirarray, filearray)
ELSE
    stop = ALEN(dirarray,1)
    FOR i = 1 TO stop
        SIZE = ALEN(filearray,1)
        DECLARE filearray[size + 1,5]
        =AINS(filearray,1)
        filearray[1,1] = dirarray(alen(dirarray,1),1)
        IF ALEN(dirarray,1) > 1
            DECLARE dirarray(alen(dirarray,1)-1,5)
        ENDIF
    ENDFOR
ENDIF
mfile = 1
RETURN
*****
ENDCASE
*
*
*
*
*
*
PROCEDURE pathstring
DO CASE
CASE DOS
*****
* Convert an array of subdirectories, such as PathArray,
* into a legal path string for use with SET DEFAULT
* Use the current value of the path popup as the
  ending point on the path
PRIVATE ppath
* Start with the drive name
m.ppath = patharray[ 1 ]
* If the path popup is pointing to a subdirectory
IF mpath > 1
    * Add all the subdirectories to the path string
    FOR i = 2 TO mpath
        m.ppath = m.ppath + "\" + patharray[ i ]
    NEXT
ENDIF
* End the path with one last slash for good luck
m.ppath = m.ppath + "\"

```

BACKUP Function PATHSTRING

```

1129: RETURN m.ppath
1130:
1131: *****
1132: CASE WINDOWS
1133: *****
1134: * Convert an array of subdirectories, such as PathArray,
1135: * into a legal path string for use with SET DEFAULT
1136: * Use the current value of the path popup as the
1137: * ending point on the path
1138: PRIVATE ppath
1139:
1140: * Start with the drive name
1141: m.ppath = patharray[ 1 ]
1142:
1143: * If the path popup is pointing to a subdirectory
1144: IF mpath > 1
1145:
1146: * Add all the subdirectories to the path string
1147: FOR i = 2 TO mpath
1148: m.ppath = m.ppath + "\" + patharray[ i ]
1149:
1150: NEXT
1151: ENDIF
1152:
1153: * End the path with one last slash for good luck
1154: m.ppath = m.ppath + "\"
1155:
1156: RETURN m.ppath
1157:
1158: *****
1159: ENDCASE
1160:
1161: *
1162: *
1163: *
1164: *
1165: *
1166: *
1167:
1168:
1169:
1170: PROCEDURE pkzip
1171: DO CASE
1172: CASE _DOS
1173: *****
1174: PRIVATE CURDIR, datadir, msel
1175: CURDIR = FULLPATH(CURDIR())
1176: IF !EMPTY(GETENV("CAMD"))
1177: datadir = FULLPATH(GETENV("CAMD"))
1178: ELSE
1179: datadir = CURDIR()
1180: ENDIF
1181: desdir = pathstring() + mfname
1182: SET DEFA TO (datadir)
1183: IF !EMPTY(GETENV("CAMDUTIL"))
1184: pkzipcom = "!" + GETENV("CAMDUTIL") + "\PKZIP &desdir *.dbf *.c
=> dx *.idx *.fpt"
1185: ELSE
1186: pkzipcom = "!"PKZIP &desdir *.dbf *.cdx *.idx *.fpt"
1187: ENDIF
1188: &pkzipcom
1189: USE
1190: DELETE FILE t0000000.txt
1191: SET DEFA TO (CURDIR)
1192: RETURN
1193: CASE _WINDOWS

```

BACKUP Procedure PKZIP

```

1194:
1195: PRIVATE CURDIR, datadir, msel
1196: CURDIR = FULLPATH(CURDIR())
1197: IF !EMPTY(GETENV("KBDATA"))
1198: datadir = FULLPATH(GETENV("KBDATA"))
1199: ELSE
1200: datadir = CURDIR()
1201: ENDIF
1202: desdir = pathstring() + mfname
1203: SET DEFA TO (datadir)
1204: IF !EMPTY(GETENV("CAMDUTIL"))
1205: pkzipcom = "!" + GETENV("CAMDUTIL") + "\PKZIP &desdir *.dbf *.c
=> dx *.idx *.fpt"
1206: ELSE
1207: pkzipcom = "!"PKZIP &desdir *.dbf *.cdx *.idx *.fpt"
1208: ENDIF
1209: &pkzipcom
1210: USE
1211: DELETE FILE t0000000.txt
1212: SET DEFA TO (CURDIR)
1213: RETURN
1214: ENDCASE
1215:
1216: *: EOF: BACKUP.ac1

```



```

=> 120:
=> 121:
122:
123:
124:
125:
126:
127:
128:
129:
130:
131:
132:
133:
134:
135:
136:
137:
138:
139:
140:
141:
142:
143:
144:
145:
146:
147:
148:
149:
150:
151:
152:
153:
154:
155:
156:
=> onclusion"
157:
158:
159:
160:
161:
162:
163:
164:
165:
166:
167:
168:
169:
170:
171:
172:
173:
174:
175:
176:
177:
178:
179:
180:
181:
182:

```

```

*
*
#REGION 1
IF WVISIBLE("w kb")
  ACTIVATE WINDOW w_kb SAME
ELSE
  ACTIVATE WINDOW w_kb NOSHOWN
ENDIF
@ 9.250,4.500 SAY "Consider" ;
FONT "Terminal", 8
@ 14.000,4.750 SAY "Probable" ;
FONT "Terminal", 8
@ 18.417,5.000 SAY "Likely" ;
FONT "Terminal", 8
@ 7.333,3.250 TO 21.666,24.875 ;
PEN 1,8
@ 5.833,4.000 SAY "Display thresholds" ;
FONT "Terminal", 8
@ 15.917,26.250 SAY "Inference" ;
FONT "Terminal", 8
@ 20.583,26.000 SAY "Confidence" ;
FONT "Terminal", 8
@ 1.500,4.125 SAY "Knowledge Base Area:" ;
FONT "Terminal", 8 ;
STYLE "T"
@ 8.500,26.375 SAY "Total Rules:" ;
FONT "Terminal", 8 ;
STYLE "T"
@ 25.083,5.625 GET mbuttons ;
PICTURE "a*HN \<Add;\<Edit;\<Delete;\<OK;\<Cancel" ;
SIZE 1.917,11.125,0.875 ;
DEFAULT 1 ;
FONT "Terminal", 8 ;
VALID qsfokogf9()
@ 6.083,53.500 GET mbuttons ;
PICTURE "a*VN \<Next;\<Previous;\<Browse;\<Qualifiers;\<Goals;\<
=> onclusion"
SIZE 2.000,11.625,1.083 ;
DEFAULT 1 ;
FONT "Terminal", 8 ;
VALID qsfokogf2m()
@ 1.583,24.875 GET m.areaname ;
SIZE 1.000,34.750 ;
DEFAULT " " ;
FONT "Terminal", 8
@ 9.250,13.625 GET m.threshold ;
SIZE 1.333,8.750 ;
DEFAULT 0 ;
FONT "Terminal", 8
@ 14.000,13.875 GET m.probable ;
SIZE 1.333,9.000 ;
DEFAULT 0 ;
FONT "Terminal", 8
@ 18.500,13.875 GET m.likely ;
SIZE 1.417,9.250 ;
DEFAULT 0 ;
FONT "Terminal", 8
@ 8.500,39.750 GET m.rules ;
SIZE 1.000,5.875 ;
DEFAULT 0 ;
FONT "Terminal", 8 ;
DISABLE
@ 11.917,26.500 GET m.isdiag ;

```

```

183:
184:
185:
186:
187:
188:
189:
190:
191:
192:
193:
194:
195:
196:
197:
198:
199:
200:
201:
202:
203:
204:
205:
206:
207:
208:
209:
210:
211:
212:
213:
214:
215:
216:
217:
218:
219:
220:
221:
222:
=>
223:
224:
=>
225:
=>
226:
=>
227:
228:
229:
230:
231:
232:
233:
234:
235:
236:
237:
238:
239:
240:
241:
242:
243:

```

```

PICTURE "a*WC DIAGNOSIS" ;
SIZE 1.417,11.875 ;
DEFAULT 0 ;
FONT "Terminal", 8
@ 20.250,37.500 GET m.mpop ;
PICTURE "a" ;
FROM methods ;
SIZE 1.500,13.000 ;
DEFAULT 1 ;
FONT "Terminal", 8 ;
VALID qsfokogfv()
@ 15.833,37.500 GET m.mpop2 ;
PICTURE "a" ;
FROM infs ;
SIZE 1.500,12.750 ;
DEFAULT 1 ;
FONT "Terminal", 8 ;
VALID qsfokogih()

IF NOT WVISIBLE("w kb")
  ACTIVATE WINDOW w_kb
ENDIF

READ CYCLE MODAL

RELEASE WINDOW w_kb

#REGION 0

SET readborder &rborder

IF m.talkstat = "ON"
  SET TALK ON
ENDIF
IF m.compstat = "ON"
  SET COMPATIBLE ON
ENDIF

*
*
*
*
*
*
#REGION 1
SELECT area
USE
SELECT goals
USE
SELECT DISPLAY
USE
SELECT quals
USE
SELECT disease
USE
SELECT enum
USE
SELECT dict
USE

```

KB/Windows Cleanup Code

```

244: SELECT VAL
245: USE
246: RETURN
247:
248:
249:
250:
251:
252:
253:
254:
255:
256:
257:
258:
259:
260:
261:
262:
263:
264:
265:
266:
267:
268:
269:
270:
271:
272:
273:
274:
275:
276:
277:
278:
279:
280:
281:
282:
283:
284:
285:
286:
287:
288:
289:
290:
291:
292:
293:
294:
295:
296:
297:
298:
299:
300:
301:
302:
303:
304:
305:
306:
307:
308:
309:
310:
311:
312:
313:
314:
315:
316:
317:
318:
319:
320:
321:
322:
323:
324:
325:
326:
327:
328:
329:
330:
331:
332:
333:
334:
335:
336:
337:
338:
339:
340:
341:
342:
343:
344:
345:
346:
347:
348:
349:
350:
351:
352:
353:
354:
355:
356:
357:
358:
359:
360:
361:
362:
363:
364:
365:
366:
367:
368:
369:
370:
371:
372:
373:
374:
375:
376:
377:
378:
379:
380:
381:
382:
383:
384:
385:
386:
387:
388:
389:
390:
391:
392:
393:
394:
395:
396:
397:
398:
399:
400:
401:
402:
403:
404:
405:
406:
407:
408:
409:
410:
411:
412:
413:
414:
415:
416:
417:
418:
419:
420:
421:
422:
423:
424:
425:
426:
427:
428:
429:
430:
431:
432:
433:
434:
435:
436:
437:
438:
439:
440:
441:
442:
443:
444:
445:
446:
447:
448:
449:
450:
451:
452:
453:
454:
455:
456:
457:
458:
459:
460:
461:
462:
463:
464:
465:
466:
467:
468:
469:
470:
471:
472:
473:
474:
475:
476:
477:
478:
479:
480:
481:
482:
483:
484:
485:
486:
487:
488:
489:
490:
491:
492:
493:
494:
495:
496:
497:
498:
499:
500:
501:
502:
503:
504:
505:
506:
507:
508:
509:
510:
511:
512:
513:
514:
515:
516:
517:
518:
519:
520:
521:
522:
523:
524:
525:
526:
527:
528:
529:
530:
531:
532:
533:
534:
535:
536:
537:
538:
539:
540:
541:
542:
543:
544:
545:
546:
547:
548:
549:
550:
551:
552:
553:
554:
555:
556:
557:
558:
559:
560:
561:
562:
563:
564:
565:
566:
567:
568:
569:
570:
571:
572:
573:
574:
575:
576:
577:
578:
579:
580:
581:
582:
583:
584:
585:
586:
587:
588:
589:
590:
591:
592:
593:
594:
595:
596:
597:
598:
599:
600:
601:
602:
603:
604:
605:
606:
607:
608:
609:
610:
611:
612:
613:
614:
615:
616:
617:
618:
619:
620:
621:
622:
623:
624:
625:
626:
627:
628:
629:
630:
631:
632:
633:
634:
635:
636:
637:
638:
639:
640:
641:
642:
643:
644:
645:
646:
647:
648:
649:
650:
651:
652:
653:
654:
655:
656:
657:
658:
659:
660:
661:
662:
663:
664:
665:
666:
667:
668:
669:
670:
671:
672:
673:
674:
675:
676:
677:
678:
679:
680:
681:
682:
683:
684:
685:
686:
687:
688:
689:
690:
691:
692:
693:
694:
695:
696:
697:
698:
699:
700:
701:
702:
703:
704:
705:
706:
707:
708:
709:
710:
711:
712:
713:
714:
715:
716:
717:
718:
719:
720:
721:
722:
723:
724:
725:
726:
727:
728:
729:
730:
731:
732:
733:
734:
735:
736:
737:
738:
739:
740:
741:
742:
743:
744:
745:
746:
747:
748:
749:
750:
751:
752:
753:
754:
755:
756:
757:
758:
759:
760:
761:
762:
763:
764:
765:
766:
767:
768:
769:
770:
771:
772:
773:
774:
775:
776:
777:
778:
779:
780:
781:
782:
783:
784:
785:
786:
787:
788:
789:
790:
791:
792:
793:
794:
795:
796:
797:
798:
799:
800:
801:
802:
803:
804:
805:
806:
807:
808:
809:
810:
811:
812:
813:
814:
815:
816:
817:
818:
819:
820:
821:
822:
823:
824:
825:
826:
827:
828:
829:
830:
831:
832:
833:
834:
835:
836:
837:
838:
839:
840:
841:
842:
843:
844:
845:
846:
847:
848:
849:
850:
851:
852:
853:
854:
855:
856:
857:
858:
859:
860:
861:
862:
863:
864:
865:
866:
867:
868:
869:
870:
871:
872:
873:
874:
875:
876:
877:
878:
879:
880:
881:
882:
883:
884:
885:
886:
887:
888:
889:
890:
891:
892:
893:
894:
895:
896:
897:
898:
899:
900:
901:
902:
903:
904:
905:
906:
907:
908:
909:
910:
911:
912:
913:
914:
915:
916:
917:
918:
919:
920:
921:
922:
923:
924:
925:
926:
927:
928:
929:
930:
931:
932:
933:
934:
935:
936:
937:
938:
939:
940:
941:
942:
943:
944:
945:
946:
947:
948:
949:
950:
951:
952:
953:
954:
955:
956:
957:
958:
959:
960:
961:
962:
963:
964:
965:
966:
967:
968:
969:
970:
971:
972:
973:
974:
975:
976:
977:
978:
979:
980:
981:
982:
983:
984:
985:
986:
987:
988:
989:
990:
991:
992:
993:
994:
995:
996:
997:
998:
999:
1000:

```

```
361:  DEFAULT 1;  
362:  VALID qsfokohm5();  
363:  COLOR SCHEME 1,2  
364:  @ 10,28 SAY "Confidence" ;  
365:  SIZE 1,10,0  
366:  @ 5,28 GET m.isdiag ;  
367:  PICTURE "@*C DIAGNOSIS" ;  
368:  SIZE 1,13 ;  
369:  DEFAULT 0  
370:  @ 1,0 GET minvbutton ;  
371:  PICTURE "@*HN \Knowledge Base" ;  
372:  SIZE 1,16,1 ;  
373:  DEFAULT 1 ;  
374:  VALID qsfokohpt() ;  
375:  MESSAGE "Knowledge Base"  
376:  @ 2,58 GET mbuttons ;  
377:  PICTURE "@*VN \<Next;\<Previous;\<Browse;\<Qualifiers;\<Goals;C  
=> onc\<Lusion" ;  
378:  SIZE 1,13,1 ;  
379:  DEFAULT 1  
380:  
381:  IF NOT WVISIBLE("w_kb")  
382:  ACTIVATE WINDOW w_kb  
383:  ENDIF  
384:  
385:  READ CYCLE MODAL  
386:  
387:  RELEASE WINDOW w_kb  
388:  
389:  #REGION 0  
390:  IF m.talkstat = "ON"  
391:  SET TALK ON  
392:  ENDIF  
393:  IF m.compstat = "ON"  
394:  SET COMPATIBLE ON  
395:  ENDIF  
396:  
397:  ENDCASE
```

_QSFOKOFX9 mbuttons VALID

Function Origin:

From Platform: Windows Record Number: 11

From Screen: KB, mbuttons

Variable: VALID Clause

Called By: Push Button

Object Type: 1

Snippet Number: 1

```
426:  SET TOPIC TO "DELETE"  
427:  DO kbdel.spr  
428:  CASE mbuttons = 4      && <ok>  
429:  SELECT area  
430:  m.name = m.areaname  
431:  GATHER MEMVAR  
432:  CLEAR READ  
433:  CASE mbuttons = 5      && <cancel>  
434:  CLEAR READ  
435:  ENDCASE  
436:  SELECT area  
437:  SCATTER MEMVAR  
438:  DO setgoals  
439:  DO setgoals  
440:  DO setdisplay  
441:  m.mpop = area.method + 1  
442:  m.mpop2 = area.inference + 1  
443:  SHOW GETS  
444:  mtopic = ALIAS()  
445:  SET TOPIC TO &mtopic  
446:  
447:  *  
448:  *  
449:  *  
450:  *  
451:  *  
452:  *  
453:  *  
454:  *  
455:  *  
456:  *  
457:  *  
458:  *  
459:  *  
460:  *  
461:  *  
462:  *  
463:  FUNCTION _qsfokog2m      && mbuttons VALID  
464:  #REGION 1  
465:  SELECT area  
466:  DO CASE  
467:  CASE mbuttons = 1      && <Next>  
468:  m.recno = RECNO()  
469:  IF IEOF()  
470:  SKIP  
471:  SHOW GET mbuttons,2 ENABLE  
472:  IF EOF()  
473:  GOTO BOTTOM  
474:  SHOW GET mbuttons,1 DISABLE  
475:  ENDIF  
476:  ELSE  
477:  GOTO BOTTOM  
478:  SHOW GET mbuttons,2 ENABLE  
479:  SHOW GET mbuttons,1 DISABLE  
480:  ENDIF  
481:  CASE mbuttons = 2      && <previous>  
482:  m.recno = RECNO()  
483:  IF IBOF()  
484:  SKIP -1  
485:  SHOW GET mbuttons,1 ENABLE  
486:  ELSE  
487:  GOTO TOP  
488:  SHOW GET mbuttons,1 ENABLE  
489:  SHOW GET mbuttons,2 DISABLE  
490:  ENDIF  
491:  CASE mbuttons = 3      && <Browse>
```

_QSFOKOG2M mbuttons VALID

Function Origin:

From Platform: Windows Record Number: 12

From Screen: KB, mbuttons

Variable: VALID Clause

Called By: Push Button

Object Type: 2

Snippet Number: 2

```

492: SET TOPIC TO "BROWSE"
493: BROWSE NOEDIT
494: CASE mbuttons = 4
495: PRIVATE msel
496: msel = SELECT()
497: SELECT quals
498: SET TOPIC TO "QUALIFIERS"
499: DO qual.spr
500: SELECT (msel)
501: RETURN .T.
502: CASE mbuttons = 5
503: PRIVATE msel
504: msel = SELECT()
505: SELECT goals
506: SET TOPIC TO "GOALS"
507: DO goal.spr
508: SELECT (msel)
509: RETURN .T.
510: CASE mbuttons = 6
511: PRIVATE msel
512: msel = SELECT()
513: SELECT DISPLAY
514: SET TOPIC TO "DISPLAY"
515: DO display.spr
516: SELEC (msel)
517: RETURN .T.
518: ENDCASE MEMVAR
519: SCATTER MEMVAR
520: m.areaname = m.name
521: m.areaid = m.area
522: DO setquals
523: DO setgoals
524: DO setdisplay
525: m.mpop = area.method + 1
526: m.mpop2 = area.inference + 1
527: SHOW GETS
528: mtopic = ALIAS()
529: SET TOPIC TO &mtopic
530:
531: *
532: *
533: *
534: *
535: *
536: *
537: *
538: *
539: *
540: *
541: *
542: *
543: *
544: *
545: *
546: *
547: FUNCTION _qsf0kogfv    && m.mpop VALID
548: #REGION 1
549: m.method = m.mpop - 1
550:
551: *
552: *
553: *
554: *
555: *
556: *
557: *

```

_QSF0KOGFV

Function Origin:

From Platform: Windows
From Screen: KB,
Variable: m.mpop
Called By: m.mpop VALID Clause
Object Type: PopUp
Snippet Number: 19

```

558: SET TOPIC TO "BROWSE"
559: BROWSE NOEDIT
560: CASE mbuttons = 4
561: PRIVATE msel
562: msel = SELECT()
563: SELECT quals
564: SET TOPIC TO "QUALIFIERS"
565: DO qual.spr
566: SELECT (msel)
567: RETURN .T.
568: CASE mbuttons = 5
569: PRIVATE msel
570: msel = SELECT()
571: SELECT goals
572: SET TOPIC TO "GOALS"
573: DO goal.spr
574: SELECT (msel)
575: RETURN .T.
576: CASE mbuttons = 6
577: PRIVATE msel
578: msel = SELECT()
579: SELECT DISPLAY
580: SET TOPIC TO "DISPLAY"
581: DO display.spr
582: SELEC (msel)
583: RETURN .T.
584: ENDCASE MEMVAR
585: SCATTER MEMVAR
586: m.areaname = m.name
587: m.areaid = m.area
588: DO setquals
589: DO setgoals
590: DO setdisplay
591: m.mpop = area.method + 1
592: m.mpop2 = area.inference + 1
593: SHOW GETS
594: mtopic = ALIAS()
595: SET TOPIC TO &mtopic
596:
597: *
598: *
599: *
600: *
601: *
602: *
603: *
604: *
605: *
606: *
607: *
608: *
609: *
610: *
611: *
612: *
613: *
614: *
615: *
616: *
617: *
618: *
619: *
620: *
621: *
622: *
623: *

```

_QSF0KOGH4Z

Function Origin:

From Platform: MS-DOS
From Screen: KB,
Variable: mbuttons
Called By: mbuttons VALID Clause
Object Type: Push Button
Snippet Number: 26

```

624: SET TOPIC TO "BROWSE"
625: BROWSE NOEDIT
626: CASE mbuttons = 4
627: PRIVATE msel
628: msel = SELECT()
629: SELECT quals
630: SET TOPIC TO "QUALIFIERS"
631: DO qual.spr
632: SELECT (msel)
633: RETURN .T.
634: CASE mbuttons = 5
635: PRIVATE msel
636: msel = SELECT()
637: SELECT goals
638: SET TOPIC TO "GOALS"
639: DO goal.spr
640: SELECT (msel)
641: RETURN .T.
642: CASE mbuttons = 6
643: PRIVATE msel
644: msel = SELECT()
645: SELECT DISPLAY
646: SET TOPIC TO "DISPLAY"
647: DO display.spr
648: SELEC (msel)
649: RETURN .T.
650: ENDCASE MEMVAR
651: SCATTER MEMVAR
652: m.areaname = m.name
653: m.areaid = m.area
654: DO setquals
655: DO setgoals
656: DO setdisplay
657: m.mpop = area.method + 1
658: m.mpop2 = area.inference + 1
659: SHOW GETS
660: mtopic = ALIAS()
661: SET TOPIC TO &mtopic
662:
663: *
664: *
665: *
666: *
667: *
668: *
669: *
670: *
671: *
672: *
673: *
674: *
675: *
676: *
677: *
678: *
679: *
680: *
681: *
682: *
683: *
684: *
685: *
686: *
687: *
688: *
689: *
690: *
691: *
692: *
693: *
694: *
695: *
696: *
697: *
698: *
699: *
700: *
701: *
702: *
703: *
704: *
705: *
706: *
707: *
708: *
709: *
710: *
711: *
712: *
713: *
714: *
715: *
716: *
717: *
718: *
719: *
720: *
721: *
722: *
723: *
724: *
725: *
726: *
727: *
728: *
729: *
730: *
731: *
732: *
733: *
734: *
735: *
736: *
737: *
738: *
739: *
740: *
741: *
742: *
743: *
744: *
745: *
746: *
747: *
748: *
749: *
750: *
751: *
752: *
753: *
754: *
755: *
756: *
757: *
758: *
759: *
760: *
761: *
762: *
763: *
764: *
765: *
766: *
767: *
768: *
769: *
770: *
771: *
772: *
773: *
774: *
775: *
776: *
777: *
778: *
779: *
780: *
781: *
782: *
783: *
784: *
785: *
786: *
787: *
788: *
789: *
790: *
791: *
792: *
793: *
794: *
795: *
796: *
797: *
798: *
799: *
800: *
801: *
802: *
803: *
804: *
805: *
806: *
807: *
808: *
809: *
810: *
811: *
812: *
813: *
814: *
815: *
816: *
817: *
818: *
819: *
820: *
821: *
822: *
823: *
824: *
825: *
826: *
827: *
828: *
829: *
830: *
831: *
832: *
833: *
834: *
835: *
836: *
837: *
838: *
839: *
840: *
841: *
842: *
843: *
844: *
845: *
846: *
847: *
848: *
849: *
850: *
851: *
852: *
853: *
854: *
855: *
856: *
857: *
858: *
859: *
860: *
861: *
862: *
863: *
864: *
865: *
866: *
867: *
868: *
869: *
870: *
871: *
872: *
873: *
874: *
875: *
876: *
877: *
878: *
879: *
880: *
881: *
882: *
883: *
884: *
885: *
886: *
887: *
888: *
889: *
890: *
891: *
892: *
893: *
894: *
895: *
896: *
897: *
898: *
899: *
900: *
901: *
902: *
903: *
904: *
905: *
906: *
907: *
908: *
909: *
910: *
911: *
912: *
913: *
914: *
915: *
916: *
917: *
918: *
919: *
920: *
921: *
922: *
923: *
924: *
925: *
926: *
927: *
928: *
929: *
930: *
931: *
932: *
933: *
934: *
935: *
936: *
937: *
938: *
939: *
940: *
941: *
942: *
943: *
944: *
945: *
946: *
947: *
948: *
949: *
950: *
951: *
952: *
953: *
954: *
955: *
956: *
957: *
958: *
959: *
960: *
961: *
962: *
963: *
964: *
965: *
966: *
967: *
968: *
969: *
970: *
971: *
972: *
973: *
974: *
975: *
976: *
977: *
978: *
979: *
980: *
981: *
982: *
983: *
984: *
985: *
986: *
987: *
988: *
989: *
990: *
991: *
992: *
993: *
994: *
995: *
996: *
997: *
998: *
999: *
1000: *

```

_QSF0KOGFV

Function Origin:

From Platform: Windows
From Screen: KB,
Variable: m.mpop
Called By: m.mpop VALID Clause
Object Type: PopUp
Snippet Number: 3

_QSF0KOGH

Function Origin:

From Platform: MS-DOS
From Screen: KB,
Variable: mbuttons
Called By: mbuttons VALID Clause
Object Type: Push Button
Snippet Number: 5

_QSF0KOGH4Z

Function Origin:

From Platform: MS-DOS
From Screen: KB,

```

624:  ENDCASE
625:  IF m.goBack
626:    GOTO m.recno
627:  ENDIF
628:  CASE mbutton = 3
629:    SET TOPIC TO "BROWSE"
630:  DO CASE
631:    CASE ALIAS() = "AREA"
632:      BROWSE NOEDIT
633:    CASE ALIAS() = "RULE"
634:      BROWSE FOR area = area.area NOEDIT
635:  ENDCASE
636:  CASE mbutton = 4
637:    SET TOPIC TO "EDIT"
638:  DO CASE
639:    CASE ALIAS() = "AREA"
640:      DO kb.spr
641:    CASE ALIAS() = "RULE"
642:      DO rule.spr
643:  ENDCASE
644:  CASE mbutton = 5
645:    SELECT quals
646:    SET TOPIC TO "QUALIFIERS"
647:  DO qual.spr
648:  RETURN .T.
649:  CASE mbutton = 6
650:    SELECT goals
651:    SET TOPIC TO "GOALS"
652:  DO goal.spr
653:  RETURN .T.
654:  ENDCASE
655:  DO setprem
656:  DO setact
657:  DO setquals
658:  DO setgoals
659:  DO setdisplay
660:  m.mpop = area.method + 1
661:  m.mpop2 = area.inference + 1
662:  SHOW GETS
663:  mtopic = ALIAS()
664:  SET TOPIC TO &mtopic
665:
666:
667:
668:
669:
670:
671:
672:
673:
674:
675:
676:
677:
678:
679:
680:
681:
682:
683:
684:
685:
686:
687:
688:
689:

```

&& <Browse>

&& <Edit>

_qsfoKOHJ1 m.mpop VALID

Function Origin:

From Platform: MS-DOS Record Number: 35
 From Screen: KB,
 Variable: m.mpop
 Called By: VALID Clause
 Object Type: popup
 Snippet Number: 6

```

FUNCTION _qsfoKohj1    && m.mpop VALID
#REGION 1
m.method = m.mpop - 1

```

_qsfoKOHM5 m.mpop2 VALID

```

690:
691:
692:
693:
694:
695:
696:
697:
698:
699:
700:
701:
702:
703:
704:
705:
706:
707:
708:
709:
710:
711:
712:
713:
714:
715:
716:
717:
718:
719:
720:
721:
722:
723:
724:
725:
726:
727:
728:
729:
730:
731:
732:
733:
734:
735:
736:
737:
738:
739:
740:
741:
742:
743:
744:
745:
746:
747:
748:
749:
750:
751:
752:
753:
754:
755:

```

Function Origin:

From Platform: MS-DOS Record Number: 37
 From Screen: KB,
 Variable: m.mpop2
 Called By: VALID Clause
 Object Type: Popup
 Snippet Number: 7

```

FUNCTION _qsfoKohm5    && m.mpop2 VALID
#REGION 1
m.inference = m.mpop2 - 1

```

_qsfoKOHPT

minvbutton VALID

Function Origin:

From Platform: MS-DOS Record Number: 40
 From Screen: KB,
 Variable: minvbutton
 Called By: VALID Clause
 Object Type: Push Button
 Snippet Number: 8

```

FUNCTION _qsfoKohpt    && minvbutton VALID
#REGION 1
SELECT area
SET TOPIC TO "AREA"

```

KB/MS-DOS Supporting Procedures and Functions

#REGION 1

KB Procedure SETQUALS

PROCEDURE setquals

```

PRIVATE msel,i
msel = SELECT()
SELECT quals
nq = RECCOUNT()
nq = MAX(nq,1)
DIMENSION mquals(nq,4)
GOTO TOP
mquals = ""
i = 0
DO WHILE IEOF()

```



```

756: i = i + 1
757: mgoals[i,3] = OBJECT
758: mgoals[i,4] = id
759: IF OBJECT = "D"
760: SELECT disease
761: ELSE
762: SELECT dict
763: ENDIF
764: SEEK mgoals[i,4]
765: mgoals[i,1] = name
766: mgoals[i,2] = ALIAS
767: SELECT goals
768: SKIP
769: ENDDO
770: ng = i
771: SELECT (mset)
772: RETURN
773:
774: *
775: *
776: *
777: *
778: *
779: *
780: *
781:
782: PROCEDURE setgoals
783: PRIVATE mset, i
784: mset = SELECT()
785: SELECT goals
786: ng = RECCOUNT()
787: ng = MAX(ng,1)
788: DIMENSION mgoals[ng,4]
789: GOTO TOP
790: i = 0
791: mgoals = ""
792: DO WHILE IEOF()
793: i = i + 1
794: mgoals[i,3] = OBJECT
795: mgoals[i,4] = id
796: IF OBJECT = "D"
797: SELECT disease
798: ELSE
799: SELECT dict
800: ENDIF
801: SEEK mgoals[i,4]
802: mgoals[i,1] = name
803: mgoals[i,2] = ALIAS
804: SELECT goals
805: SKIP
806: ENDDO
807: ng = i
808: SELECT (mset)
809: RETURN
810:
811: *
812: *
813: *
814: *
815: *
816: *
817: *
818:
819: PROCEDURE setdisplay
820: PRIVATE mset, i
821: mset = SELECT()

```

KB Procedure SETDISPLAY

KB Procedure SETGOALS

```

822: SELECT DISPLAY
823: nd = RECCOUNT()
824: nd = MAX(nd,1)
825: DIMENSION mdispl[nd,4]
826: GOTO TOP
827: i = 0
828: mdispl = ""
829: DO WHILE IEOF()
830: i = i + 1
831: mdispl[i,3] = OBJECT
832: mdispl[i,4] = id
833: IF OBJECT = "D"
834: SELECT disease
835: ELSE
836: SELECT dict
837: ENDIF
838: SEEK mdispl[i,4]
839: mdispl[i,1] = name
840: mdispl[i,2] = ALIAS
841: SELECT DISPLAY
842: SKIP
843: ENDDO
844: nd = i
845: SELECT (mset)
846: RETURN
847:
848: *
849: *
850: *
851: *
852: *
853: *
854: *
855:
856: PROCEDURE edgoal
857: =edobj( mgoals[ng,3], mgoals[ng,4] )
858: RETURN
859:
860: *
861: *
862: *
863: *
864: *
865: *
866: *
867:
868: PROCEDURE edqual
869: =edobj( mgoals[ng,3], mgoals[ng,4] )
870: RETURN
871:
872: *
873: *
874: *
875: *
876: *
877: *
878: *
879:
880: PROCEDURE eddisplay
881: =edobj( mdispl[nd,3], mdispl[nd,4] )
882: RETURN
883:
884: *
885: *
886: *
887: *

```

KB Procedure EDGOAL

KB Procedure EDQUAL

KB Procedure EDDISPLAY

KB Function EDOBJ

```
888: *
889: *
890: *
891:
892: FUNCTION edobj
893:   PARAMETERS mobj, mid
894:   PRIVATE msel
895:   msel = SELECT()
896:   IF mobj = "q"
897:     SELECT disease
898:     SEEK mid
899:     DO disease.spr
900:   ELSE
901:     SELECT dict
902:     SEEK mid
903:     DO dict.spr WITH mid
904:   ENDIF.
905:   SELECT (msel)
906:   RETURN ""
907:
908:
909: *: EOF: KB.ac1
```

08/09/94	KBDEL.SPR	09:38:58
Author's Name Copyright (c) 1994 Company Name Address City, Zip Description: This program was automatically generated by GENSCRN.		

```

1:
2:
3:
4:
5:
6:
7:
8:
9:
10:
11:
12:
13:
14:
15:
16:
17:
18:
19:
20:
21:
22:
23:
24:
25:
26:
27:
28:
29:
30:
31:
32:
33:
34:
35:
36:
37:
38:
39:
40:
41:
42:
43:
44:
45:
46:
47:
48:
49:
50:
51:
52:
53:
54:
55:
56:
57:
58:
59:
60:

```

```

DO CASE
CASE _WINDOWS

```

```

#REGION 0
REGIONAL m.currarea, m.talkstat, m.compstat

```

```

IF SET("TALK") = "ON"
SET TALK OFF
m.talkstat = "ON"
ELSE
m.talkstat = "OFF"
ENDIF
m.compstat = SET("COMPATIBLE")
SET COMPATIBLE FOXPLUS
m.rborder = SET("READBORDER")
SET readborder ON

```

Windows Window definitions

```

IF NOT WEXIST(" qsf0kok6q")
DEFINE WINDOW _qsf0kok6q ;
AT 0,000,0,000 ;
SIZE 7,917,42,500 ;
TITLE "Knowledge Base Delete" ;
FONT "Terminal", 8 ;
FLOAT ;
NOCLOSE ;
SHADOW ;
NOMINIMIZE ;
DOUBLE ;
MOVE WINDOW _qsf0kok6q CENTER
ENDIF

```

```

=> 61:
=> 62:
=> 63:
=> 64:
65:
66:
67:
68:
69:
70:
71:
72:
73:
74:
75:
76:
77:
78:
79:
80:
81:
82:
83:
84:
85:
86:
87:
88:
89:
90:
91:
92:
93:
94:
95:
96:
97:
98:
99:
100:
101:
102:
103:
104:
105:
106:
107:
108:
109:
110:
111:
112:
113:
114:
115:
116:
117:
118:
119:
120:
121:
=>

```

KBDEL/Windows Screen Layout

```

#REGION 1
IF WVISIBLE(" qsf0kok6q")
ACTIVATE WINDOW _qsf0kok6q SAME
ELSE
ACTIVATE WINDOW _qsf0kok6q NOSHOW
ENDIF
@ 4,250,10,375 GET mbutton ;
PICTURE "a*HT OK;Cancel" ;
SIZE 2,000,8,250,1,500 ;
DEFAULT 1 ;
FONT "Terminal", 8 ;
VALID _qsf0kok6q ;
@ 1,333,9,125 GET area.name ;
SIZE 1,000,31,250 ;
DEFAULT " " ;
FONT "Terminal", 8 ;
DISABLE
@ 1,250,0,750 SAY "Delete:" ;
FONT "Terminal", 8

```

```

IF NOT WVISIBLE(" qsf0kok6q")
ACTIVATE WINDOW _qsf0kok6q
ENDIF

```

READ CYCLE MODAL

RELEASE WINDOW _qsf0kok6q

#REGION 0

SET readborder &rborder

IF m.talkstat = "ON"

SET TALK ON

ENDIF

IF m.compstat = "ON"

SET COMPATIBLE ON

ENDIF

CASE _DOS

```

#REGION 0
REGIONAL m.currarea, m.talkstat, m.compstat

```

IF SET("TALK") = "ON"

SET TALK OFF

m.talkstat = "ON"

ELSE

m.talkstat = "OFF"

ENDIF

m.compstat = SET("COMPATIBLE")

SET COMPATIBLE FOXPLUS

```

122: *
123: * MS-DOS Window definitions
124: *
125: *
126: *
127: *
128: * IF NOT WEXIST(" qsf0kokln")
129: *   DEFINE WINDOW _qsf0kokln ;
130: *   FROM INT((SROW()-8)/2),INT((SCOL()-39)/2) ;
131: *   TO INT((SROW()-8)/2)+7,INT((SCOL()-39)/2)+38 ;
132: *   TITLE "Knowledge Base Delete" ;
133: *   FLOAT ;
134: *   NOCLOSE ;
135: *   SHADOW ;
136: *   NOMINIMIZE ;
137: *   DOUBLE ;
138: *   COLOR SCHEME 5
139: *
140: *
141: *
142: *
143: *
144: * KBDEL/MS-DOS Screen Layout
145: *
146: *
147: *
148: *
149: *
150: * #REGION 1
151: * IF WVISIBLE(" qsf0kokln")
152: *   ACTIVATE WINDOW _qsf0kokln SAME
153: * -ELSE
154: *   ACTIVATE WINDOW _qsf0kokln NOSHOWN
155: *   ENDIF
156: *   @ 4,8 GET mbutton ;
157: *   PICTURE "a*HT OK;Cancel" ;
158: *   SIZE 1,8,2 ;
159: *   DEFAULT 1 ;
160: *   VALID _qsf0kokpt()
161: *   @ 1,10 GET area.name ;
162: *   SIZE 1,26 ;
163: *   DISABLE " " ;
164: *   @ 1,1 SAY "Delete:" ;
165: *   SIZE 1,7, 0
166: *
167: * IF NOT WVISIBLE(" qsf0kokln")
168: *   ACTIVATE WINDOW _qsf0kokln
169: *   ENDIF
170: *
171: * READ CYCLE MODAL
172: *
173: * RELEASE WINDOW _qsf0kokln
174: *
175: * #REGION 0
176: * IF m.talkstat = "ON"
177: *   SET TALK ON
178: *   ENDIF

```

```

179: *
180: * IF m.compstat = "ON"
181: *   SET COMPATIBLE ON
182: *   ENDIF
183: *
184: *
185: *
186: *
187: *
188: *
189: *
190: *
191: *
192: *
193: *
194: *
195: *
196: *
197: *
198: *
199: *
200: *
201: * FUNCTION _qsf0kokeu    && mbutton VALID
202: * #REGION 1
203: * DO CASE
204: * CASE mbutton = 1
205: *   *do (m.home + "\\kdelete") with area.name
206: *   DO kdelete WITH area.name
207: *
208: * END CASE
209: * RETURN .T.
210: *
211: *
212: *
213: *
214: *
215: *
216: *
217: *
218: *
219: *
220: *
221: *
222: *
223: *
224: *
225: *
226: * FUNCTION _qsf0kokpt    && mbutton VALID
227: * #REGION 1
228: * DO CASE
229: * CASE mbutton = 1
230: *   *do (m.home + "\\kdelete") with area.name
231: *   DO kdelete WITH area.name
232: *
233: * END CASE
234: * RETURN .T.

```

_qsf0KOKU	mbutton	VALID
Function Origin:	Windows	Record Number: 2
From Platform:	KBDEL,	
From Screen:	mbutton	
Variable:	VALID Clause	
Called By:	Push Button	
Object Type:	1	
Snippet Number:		

_qsf0KOKPT	mbutton	VALID
Function Origin:	MS-DOS	Record Number: 7
From Platform:	KBDEL,	
From Screen:	mbutton	
Variable:	VALID Clause	
Called By:	Push Button	
Object Type:	2	
Snippet Number:		

08/09/94	QUAL.SPR	09:39:00
Author's Name Copyright (c) 1994 Company Name Address City, Zip Description: This program was automatically generated by GENSCRN.		

1: *
2: *
3: *
4: *
5: *
6: *
7: *
8: *
9: *
10: *
11: *
12: *
13: *
14: *
15: *
16: *

DO CASE
CASE _WINDOWS

#REGION 0
REGIONAL m.curraarea, m.talkstat, m.compstat

IF SET("TALK") = "ON"
SET TALK OFF
m.talkstat = "ON"
ELSE
m.talkstat = "OFF"
ENDIF

m.compstat = SET("COMPATIBLE")
SET COMPATIBLE FOXPLUS

m.rborder = SET("READBORDER")
SET readborder ON

Windows Window definitions

IF NOT WEXIST("w_qe") ;
OR UPPER(WTITLE("w_qe")) == "w_qe.PJX" ;
OR UPPER(WTITLE("w_qe")) == "w_qe.SCX" ;
OR UPPER(WTITLE("w_qe")) == "w_qe.MNX" ;
OR UPPER(WTITLE("w_qe")) == "w_qe.PRG" ;
OR UPPER(WTITLE("w_qe")) == "w_qe.FRX" ;
OR UPPER(WTITLE("w_qe")) == "w_qe.QPR" ;
DEFINE WINDOW w_qe ;
AT 0.000, 0.000 ;
SIZE 19.923, 57.333 ;
TITLE "Qualifier Editor" ;
FONT "MS Sans Serif", 8 ;
STYLE "B" ;
FLOAT ;
CLOSE ;
SHADOW ;
NOMINIMIZE ;
COLOR RGB(,,,128,128,128)

62: *
63: *
64: *
65: *
66: *
67: *
68: *
69: *
70: *
71: *
72: *
73: *
74: *
75: *
76: *
77: *
78: *
79: *
80: *
81: *
82: *
83: *
84: *
85: *
86: *
87: *
88: *
89: *
90: *
91: *
92: *
93: *
94: *
95: *
96: *
97: *
98: *
99: *
100: *
101: *
102: *
103: *
104: *
105: *
106: *
107: *
108: *
109: *
110: *
111: *
112: *
113: *
114: *
115: *
116: *
117: *

MOVE WINDOW w_qe CENTER
ENDIF

QUAL/Windows Setup Code - SECTION 2

#REGION 1
EXTERNAL ARRAY mquals

QUAL/Windows Screen Layout

#REGION 1
IF WVISIBLE("w_qe")
ACTIVATE WINDOW w_qe SAME
ELSE
ACTIVATE WINDOW w_qe NOSHOW
ENDIF
@ 17.538, 16.333 GET mbuttons ;
PICTURE "q*HT \<edit>\<quit>" ;
SIZE 1.846, 10.667, 1.000 ;
DEFAULT 1 ;
FONT "MS Sans Serif", 8 ;
STYLE "B" ;
VALID _qsf0komjfc() ;
PICTURE "q&N" ;
FROM mquals ;
SIZE 16.154, 63.200 ;
DEFAULT 1 ;
FONT "MS Sans Serif", 8 ;
VALID _qsf0komrx() ;
IF NOT WVISIBLE("w_qe")
ACTIVATE WINDOW w_qe
ENDIF

READ CYCLE MODAL

RELEASE WINDOW w_qe

#REGION 0

SET readborder &rborder

IF m.talkstat = "ON"
SET TALK ON

```

118:  ENDIF
119:  IF m.compstat = "ON"
120:    SET COMPATIBLE ON
121:  ENDIF
122:
123:
124:
125:
126:
127:
128:
129:
130:
131:
132:
133:
134:
135:
136:
137:
138:
139:
140:
141:
142:
143:
144:
145:
146:
147:
148:
149:
150:
151:
152:
153:
154:
155:
156:
157:
158:
159:
160:
161:
162:
163:
164:
165:
166:
167:
168:
169:
170:
171:
172:
173:

QUAL/Windows Cleanup Code

#REGION 1
RETURN

CASE _DOS

#REGION 0
REGIONAL m.curraea, m.talkstat, m.compstat

IF SET("TALK") = "ON"
SET TALK OFF
m.talkstat = "ON"
ELSE
m.talkstat = "OFF"
ENDIF
m.compstat = SET("COMPATIBLE")
SET COMPATIBLE FOXPLUS

MS-DOS Window definitions

IF NOT WEXIST("w_qe") ;
OR UPPER(WTITLE("w_qe")) = "W_QE.PJX" ;
OR UPPER(WTITLE("w_qe")) = "W_QE.SCX" ;
OR UPPER(WTITLE("w_qe")) = "W_QE.MNX" ;
OR UPPER(WTITLE("w_qe")) = "W_QE.PRG" ;
OR UPPER(WTITLE("w_qe")) = "W_QE.FRX" ;
OR UPPER(WTITLE("w_qe")) = "W_QE.QPR" ;
DEFINE WINDOW w_qe :
FROM INT((SROW()-17)/2), INT((SCOL()-58)/2) ;
TO INT((SROW()-17)/2)+16, INT((SCOL()-58)/2)+57 ;
TITLE "Qualifier Editor" ;
FLOAT ;
CLOSE ;
SHADOW ;
NOMINIMIZE ;
COLOR SCHEME 1
ENDIF

```

```

174:
175:
176:
177:
178:
179:
180:
181:
182:
183:
184:
185:
186:
187:
188:
189:
190:
191:
192:
193:
194:
195:
196:
197:
198:
199:
200:
201:
202:
203:
204:
205:
206:
207:
208:
209:
210:
211:
212:
213:
214:
215:
216:
217:
218:
219:
220:
221:
222:
223:
224:
225:
226:
227:
228:
=>

QUAL/MS-DOS Setup Code - SECTION 2

#REGION 1
EXTERNAL ARRAY mquals

QUAL/MS-DOS Screen Layout

#REGION 1
IF WVISIBLE("w_qe")
ACTIVATE WINDOW w_qe SAME
ELSE
ACTIVATE WINDOW w_qe NOSHOWN
ENDIF
@ 14,11 GET mbuttons ;
PICTURE "@*HN \<Add;\<Delete;\<OK;\<Cancel" ;
SIZE 1,8,1 ;
DEFAULT 1 ;
VALID qsf0kon7e()
@ 0,1 GET mq ;
PICTURE "@&N" ;
FROM mquals ;
SIZE 13,54 ;
DEFAULT 1 ;
VALID qsf0konbu() ;
COLOR SCHEME 2

IF NOT WVISIBLE("w_qe")
ACTIVATE WINDOW w_qe
ENDIF

READ CYCLE MODAL

RELEASE WINDOW w_qe

#REGION 0
IF m.talkstat = "ON"
SET TALK ON
ENDIF
IF m.compstat = "ON"
SET COMPATIBLE ON
ENDIF

```

EQUAL/MS-DOS Cleanup Code

QUAL.AC1 10-3-94 3:00p

QUAL/MS-DOS Supporting Procedures and Functions

291:
292:
293:
294:
295:
296:
297:
298:
299:
300:
301:
302:
303:
304:
305:
306:
307:
308:
309:
310:
311:
312:
313:
314:
315:
316:
317:
318:
319:
320:
321:
322:
323:
324:
325:
326:
327:
328:
329:
330:
331:
332:
333:
334:
335:
336:
337:
338:
339:
340:
341:
342:
343:
344:
345:
346:
347:
348:
349:
350:
351:
352:
353:
354:
355:
356:

```

357: #REGION 1
358:
359:
360:
361:
362:
363:
364:
365:
366:
367:
368:
369:
370:
371:
372:
373:
374:
375:
376:
377:
378:
379:
380:
381:
382:
383:
384:
385:
386:
387:
388:
389:
390:
391:
392:
393:
394:
395:
396:
397:
398:
399:
400:
401:
402:
403:
404:
405:
406:
407:
408:
409:
410:
411:
412:
413:
414:
415:
416:
417:
418:
419:
420:
421:
422:

```

QUAL Function POPUPSHOW

```

FUNCTION popupshow
PARAMETERS errstr
IF NOT EXIST("w_popnote")
DEFINE WINDOW w_popnote ;
FROM INT((SROW()-8)/2),INT((SCOL()-36)/2) ;
TO INT((SROW()-8)/2)+7,INT((SCOL()-36)/2)+35 ;
TITLE "One moment" ;
FLOAT ;
CLOSE ;
SHADOW ;
DOUBLE ;
COLOR SCHEME 1
ENDIF
IF WVISIBLE("w_popnote")
ACTIVATE WINDOW w_popnote SAME
ELSE
ACTIVATE WINDOW w_popnote NOSHOW
ENDIF
@ 1,1 SAY errstr SIZE 3,31
IF NOT WVISIBLE("w_popnote")
ACTIVATE WINDOW w_popnote
ENDIF
RETURN ""

```

QUAL Function POPUPHIDE

```

FUNCTION popuphide
PARAMETERS w
RELEASE WINDOW w_popnote
RETURN w

```

QUAL Function VALIDOBJ

```

FUNCTION validobj
PRIVATE msel,mvalid
mvalid = .f.
msel = SELECT()
SELECT quals

```

```

423:
424:
425:
426:
427:
428:
429:
430:
431:
432:
433:
434:
435:
436:
437:
438:
439:
440:
441:
442:
443:
444:
445:
446:
447:
448:
449:
450:
451:
452:
453:
454:
455:
456:
457:
458:
459:
460:
461:
462:
463:
464:
465:

```

QUAL Function QUALDEL

```

SEEK mquals[mq,4]
IF FOUND()
IF EMPTY(rules) AND EMPTY(ruleso)
mvalid = .t.
ELSE
msg = ALLTRIM(STRTSTR(rules,"|",",","))
IF EMPTY(ruleso)
msg = msg + IIF(EMPTY(msg),",",",") + ALLTRIM(STRTSTR(rules
=> o,"|",",","))
ENDIF
IF LEN(msg) > 120
msg = SUBSTR(msg,1,120)
msg = SUBSTR(msg,1,RAT(",","msg")-1) + ", etc"
ENDIF
mvalid = .f.
=errmsg("This object was used by rules: " + msg + ". Delete wa
=> s not allowed!!",2)
ENDIF
SELECT (msel)
RETURN mvalid

```

```

FUNCTION qualdel
PRIVATE msel
msel = SELECT()
SELECT quals
SEEK mquals[mq,4]
IF FOUND()
= popupshow("deleting...")
DELETE
PACK
= popuphide()
ENDIF
DO setquals
SELECT (msel)
RETURN
* EOF: QUAL.AC1

```


DO edgoal

245:
246:
247:
248:
249:
250:
251:
252:
253:
254:
255:
256:
257:
258:
259:
260:
261:
262:
263:
264:
265:
266:
267:
268:
269:
270:
271:
272:
273:
274:
275:
276:
277:
278:
279:
280:
281:
282:
283:
284:
285:
286:
287:
288:
289:
290:
291:
292:
293:
294:
295:
296:
297:
298:

Function Origin: mbuttons VALID
From Platform: MS-DOS
From Screen: GOAL,
Variable: mbuttons
Called By: VALID Clause
Object Type: Push Button
Snippet Number: 3
Record Number: 6

FUNCTION _qsfofokoptk && mbuttons VALID

```
#REGION 1
DO CASE
CASE mbuttons = 1
  DEACTIVATE WINDOW w_goal
  DO object.spr WITH "G"
  ACTIVATE WINDOW w_goal
  DO setgoals
CASE mbuttons = 2 && ok
  mok = .T.
  CLEAR READ
CASE mbuttons = 3 && cancel
  mok = .F.
  CLEAR READ
ENDCASE
SHOW GETS
```

Function Origin: mg VALID
From Platform: MS-DOS
From Screen: GOAL,
Variable: mg
Called By: VALID Clause
Object Type: List
Snippet Number: 4
Record Number: 7

FUNCTION _qsfofokopxh && mg VALID

```
#REGION 1
DO edgoal
*: EOF: GOAL.ac1
```

[illegible]


```

311: *
312: *
313: *
314: *
315: *
316: FUNCTION _qsf0kos6a    && md VALID
317: #REGION 1
318: DO eddisplay
319: *: EOF: DISPLAY.ac1
    
```

Object Type: List
Snippet Number: 5

```

245: *
246: *
247: FUNCTION _qsf0kormj    && md VALID
248: #REGION 1
249: DO eddisplay
    
```

_QSF0KORZX mbuttons VALID

Function Origin:

From Platform: MS-DOS
From Screen: DISPLAY,
Variable: mbuttons
Called By: VALID Clause
Object Type: Push Button
Snippet Number: 3
Record Number: 6

```

265: *
266: *
267: FUNCTION _qsf0korzx    && mbuttons VALID
268: #REGION 1
269: DO CASE
270: CASE mbuttons = 1    && ok
271:   mok = .T.
272: CASE mbuttons = 2    && cancel
273:   mok = .F.
274: END CASE
    
```

_QSF0KOS30

Function Origin:

From Platform: MS-DOS
From Screen: DISPLAY,
Variable: mbutton
Called By: VALID Clause
Object Type: Push Button
Snippet Number: 4
Record Number: 7

```

289: *
290: *
291: FUNCTION _qsf0kos30    && mbutton VALID
292: #REGION 1
293: DO CASE
294: CASE mbutton = 1
295:   APPEND BLANK
296:   REPLACE area WITH area.area
297: CASE mbutton = 2
298: END CASE
299: SHOW GETS
    
```

_QSF0KOS6A

Function Origin:

From Platform: MS-DOS
From Screen: DISPLAY,
Variable: md
Called By: VALID Clause
Record Number: 8

[illegible]

```

-ENDIF
#REGION 0
REGIONAL m.currearea, m.talkstat, m.compstat

-IF SET("TALK") = "ON"
SET TALK OFF
m.talkstat = "ON"
-ELSE
m.talkstat = "OFF"
-ENDIF
m.compstat = SET("COMPATIBLE")
SET COMPATIBLE FOXPLUS

*
*
*
*
*
*
*
-IF NOT WEXIST("w_disease") ;
OR UPPER(WTITLE("w_disease")) == "W_DISEASE.PJX" ;
OR UPPER(WTITLE("w_disease")) == "W_DISEASE.SCX" ;
OR UPPER(WTITLE("w_disease")) == "W_DISEASE.MNX" ;
OR UPPER(WTITLE("w_disease")) == "W_DISEASE.PRG" ;
OR UPPER(WTITLE("w_disease")) == "W_DISEASE.FRX" ;
OR UPPER(WTITLE("w_disease")) == "W_DISEASE.QPR" ;
DEFINE WINDOW w_disease ;
FROM INT((SROW()-20)/2),INT((SCOL()-78)/2) ;
TO INT((SROW()-20)/2)+19,INT((SCOL()-78)/2)+77 ;
TITLE "Disease Object Editor" ;
FLOAT ;
CLOSE ;
SHADOW ;
NONMINIMIZE ;
COLOR SCHEME 1
-ENDIF

*
*
*
*
*
*
*
DISEASE/MS-DOS Screen Layout

*
*
*
*
*
*
#REGION 1
-IF WVISIBLE("w_disease")
ACTIVATE WINDOW w_disease SAME
-ELSE
ACTIVATE WINDOW w_disease NOSHOW
-ENDIF
@ 0,19 GET disease.name ;
SIZE 1,35 ;
DEFAULT "" ;

```



```

230: PICTURE "a1";
231: WHEN m.adding = disease.id ;
232: DISABLE
233: a 0,13 SAY "Name";
234: SIZE 1,4,0
235: a 1,0 EDIT disease.descript ;
236: SIZE 7,76,0 ;
237: DEFAULT " " ;
238: SCROLL
239: a 9,0 EDIT disease.treatment ;
240: SIZE 7,76,0 ;
241: DEFAULT " " ;
242: SCROLL
243: a 17,29 GET mbuttons ;
244: PICTURE "a*HN \<OK;\<Cancel\" ;
245: SIZE 1,8,1 ;
246: DEFAULT 1 ;
247: VALID _qsf0koumi()
248: a 0,0 SAY "id" ;
249: SIZE 1,2,0
250: a 0,4 GET disease.id ;
251: SIZE 1,5 ;
252: DEFAULT " " ;
253: DISABLE
254:
255: [IF NOT WVISIBLE("w_disease")
256: ACTIVATE WINDOW w_disease
257: ENDIF
258:
259: READ CYCLE MODAL ;
260: WHEN _qsf0kouqk()
261:
262: RELEASE WINDOW w_disease
263:
264: #REGION 0
265: [IF m.talkstat = "ON"
266: SET TALK ON
267: ENDIF
268: [IF m.compstat = "ON"
269: SET COMPATIBLE ON
270: ENDIF
271:
272: ]
273:
274:
275:
276:
277:
278:
279:
280:
281:
282:
283:
284:
285:
286:
287:
288:
289:
290:
291:
292:
293:
294:
295:

```

```

_QSF0KOU0D      mbuttons VALID
Function Origin:
From Platform:  Windows
From Screen:    DISEASE,
Variable:       mbuttons
Called By:      VALID Clause
Object Type:    Push Button
Snippet Number: 1

```

```

FUNCTION _qsf0kou0d  && mbuttons VALID
#REGION 1_
DO CASE
CASE mbuttons = 1  && ok
SELECT disease

```

```

296: GATHER MEMVAR MEMO
297: mok = .T.
298: CASE mbuttons = 2  && cancel
299: mok = .F.
300: ENDCASE
301: SHOW GETS
302:
303:
304:
305:
306:
307:
308:
309:
310:
311:
312:
313:
314:
315:
316:
317:
318:
319:
320:
321:
322:
323:
324:
325:
326:
327:
328:
329:
330:
331:
332:
333:
334:
335:
336:
337:
338:
339:
340:
341:
342:
343:
344:
345:
346:
347:
348:
349:
350:
351:
352:
353:
354:
355:
356:
357:
358:
359:
360:
361:

```

```

_QSF0KOU3P      Read Level When
Function Origin:
From Platform:  Windows
From Screen:    DISEASE
Called By:      READ Statement
Snippet Number: 2

```

```

FUNCTION _qsf0kou3p  && Read Level When
* When Code from screen: DISEASE
*
#REGION 1
SET TOPIC TO "GOAL"
SHOW GET m.name ENABLE
CUROBJ = OBJNUM(m.name)
SHOW GETS

```

```

_QSF0KOU0I      mbuttons VALID
Function Origin:
From Platform:  MS-DOS
From Screen:    DISEASE,
Variable:       mbuttons
Called By:      VALID Clause
Object Type:    Push Button
Snippet Number: 3

```

```

FUNCTION _qsf0koumi  && mbuttons VALID
#REGION 1_
DO CASE
CASE mbuttons = 1  && ok
mok = .T.
CLEAR READ
CASE mbuttons = 2  && cancel
mok = .F.
CLEAR READ
ENDCASE
SHOW GETS

```

```

_QSF0KOU0K      Read Level When
Function Origin:

```

362: *
363: *
364: *
365: *
366: *
367: *
368: *
369: *
370: *
371: *
372: *
373: *
374: *
375: *
376: *
377: *
378: *
379: *
380: *
381: *
382: *
383: *
384: *
385: *
386: *
387: *
388: *
389: *

From Platform: MS-DOS
From Screen: DISEASE
Called By: READ Statement
Snippet Number: 4

FUNCTION _qsf0kouk && Read Level When

* When Code from screen: DISEASE

#REGION 1
SET TOPIC TO "GOAL"
SHOW GET disease.name ENABLE
CUROBJ = OBJNUM(disease.name)
SHOW GETS

DISEASE/MS-DOS Supporting Procedures and Functions

#REGION 1
*: EOF: DISEASE.ac1

```

1: *****
=> *****
2: *
3: * Procedure file: C:\CAMD2\KBEDIT\WORK\KBLDR.PRG
4: * System: Knowledge Base Editor
5: * Author: Hoa L. Ly
6: * Copyright (c) June 1, 1994, Naval Health Research Center, Code 2
=> 2
7: * Last modified: 08/09/94 at 8:37:34
8: *
9: * Set by: QSF0KQC6T() (function in KBLOAD.SPR)
10: * : _QSF0KQCZG() (function in KBLOAD.SPR)
11: *
12: * Uses: FACT.DBF
13: * : PREMISE.DBF
14: * : ACTION.DBF
15: * : RULE.DBF
16: * : KBHELP.DBF
17: *
18: * Indexes: FACT.IDX
19: * : PREMISE.IDX
20: * : ACTION.IDX
21: * : RULEAREA.IDX
22: * : SALIENCE.IDX
23: * : RULE.IDX
24: *
25: * Documented 15:00:57 FoxDoc versio
=> n 3.00a
26: * *****
=> *****
27: * kbldr.prg
28: * -----
29: * Knowledge Base Loader
30: * for
31: * Medical Practice Support System
32: *
33: * $Revision: 1.1 $
34: * $Date: 92/05/04 11:10:24 $
35: * $Author: RoyMDobbins $
36: *
37: *
38: * -----
39: * PARAMETERS m.new && source directory
40: *
41: * Load a new knowledge base
42: *
43: * Objects from the new knowledge base are appended to the
44: * existing knowledge base files, or replace existing objects.
45: * Existing rulesets and their associated premise, action clauses
46: * are deleted first, before the new ruleset is loaded
47: * Other objects may only be edited, not replaced.
48: *
49: * PRIVATE m.exists && true if item exists
50: * PRIVATE m.unique && enumerated item
51: * PRIVATE m.ord && next ordinal value
52: * PRIVATE m.mexact && set exact on/off
53: * PRIVATE m.newrecno && stor
=> e current area record number
54: *
55: * check all the database exist at m.new directory.
56: * If any database was not define will be stop process.
57: * IF FILE(m.new + "dict.dbf")
58: * RETURN
59: * ENDIF
60: * IF FILE(m.new + "val.dbf")
61: * RETURN

```

```

62: * ENDIF
63: * IF FILE(m.new + "enum.dbf")
64: * RETURN
65: * ENDIF
66: * IF FILE(m.new + "disease.dbf")
67: * RETURN
68: * ENDIF
69: * IF FILE(m.new + "help.dbf")
70: * RETURN
71: * ENDIF
72: * IF FILE(m.new + "area.dbf")
73: * RETURN
74: * ENDIF
75: * IF FILE(m.new + "fact.dbf")
76: * RETURN
77: * ENDIF
78: * IF FILE(m.new + "premise.dbf")
79: * RETURN
80: * ENDIF
81: * IF FILE(m.new + "action.dbf")
82: * RETURN
83: * ENDIF
84: * IF FILE(m.new + "rule.dbf")
85: * RETURN
86: * ENDIF
87: * IF FILE(m.new + "goals.dbf")
88: * RETURN
89: * ENDIF
90: * IF FILE(m.new + "display.dbf")
91: * RETURN
92: * ENDIF
93: *
94: * Open the database
95: * SELECT 0
96: * USE fact INDEX fact
97: * SELECT 0
98: * USE premise INDEX premise
99: * SET RELATION TO fact INTO fact
100: * SELECT 0
101: * USE action INDEX action
102: * SELECT 0
103: * USE rule INDEX rulearea,salience,rule
104: * SET RELATION TO premise INTO premise, action INTO action
105: * SELECT area
106: * SET RELATION TO area INTO rule
107: *
108: * SELECT area
109: * m.newrecno = RECNO()
110: *
111: * -----
112: * update dict/enum/val databases
113: *
114: * -----
115: *
116: * SELECT dict
117: * GOTO BOTTOM
118: * m.qualid = id + 1
119: * SET ORDER TO 2
120: * SELECT 0
121: * USE (m.new + "dict") ALIAS newdict &&
122: * i = MAX( RECCOUNT(), 1 )
123: * PRIVATE mqid, mqid
124: * DIMENSION mqid[i], mqid[i]
125: *
126: * DO WHILE !EOF()
127: *

```

```

128: SCATTER MEMVAR
129: m.newid = m.id
130: mgid[ RECNOC() ] = m.id
131: SELECT dict
132: m.name = UPPER( TRIM( m.name ) )
133: IF LEN( m.name ) > LEN( name )
134:   m.name = SUBSTR( m.name, LEN( name ) )
135: ENDIF
136: SEEK m.name
137: IF FOUND()
138:   * item already exists
139:   * some fields cannot be edited - use existing values
140:   m.datatype = datatype
141:   m.exists = .T.
142:   m.id = id
143: ELSE
144:   m.exists = .F.
145:   m.id = m.id + m.qualid
146:   APPEND BLANK
147: ENDIF
148: GATHER MEMVAR
149: m.uid = m.id
150: IF m.datatype = "N"
151:   * update numeric type
152:   SELECT 0
153:   USE (m.new + "val") ALIAS newval
154:   LOCATE FOR id = m.newid
155:   SCATTER MEMVAR
156:   SELECT VAL
157:   SEEK m.uid
158:   IF !FOUND()
159:     APPEND BLANK
160:   ENDIF
161:   m.id = m.uid
162:   GATHER MEMVAR
163:   SELECT newval
164:   USE
165: ELSE
166:   * update enumerated types
167:   * You can only append additional enumerated values
168:   SELECT enum
169:   SEEK m.uid
170:   m.exists = FOUND()
171:   m.uord = 0
172:   IF m.exists
173:     * next available ordinal value
174:     COUNT WHILE id = m.uid .AND. !EOF() TO m.uord
175:   ENDIF
176:   SELECT 0
177:   USE (m.new + "enum") ALIAS newenum
178:   LOCATE FOR id = m.newid
179:   DO WHILE id = m.newid .AND. !EOF()
180:     SCATTER MEMVAR
181:     m.unique = .F.
182:     IF m.exists
183:       * existing element, ensure enumeration is new
184:       SELECT enum
185:       SEEK m.uid
186:       mexact = SET("EXACT")
187:       SET EXACT ON
188:       DO WHILE id = m.uid .AND. !EOF()
189:         IF enumerate = m.enumerate
190:           m.unique = .F.
191:           EXIT
192:         ENDIF

```

```

193:       ENDIF
194:       * item already exists
195:       * some fields cannot be edited - use existing values
196:       m.datatype = datatype
197:       m.exists = .T.
198:       m.id = id
199:     ELSE
200:       m.exists = .F.
201:       m.id = m.id + m.qualid
202:       APPEND BLANK
203:     ENDIF
204:   GATHER MEMVAR
205:   m.uid = m.id
206:   IF m.datatype = "N"
207:     * update numeric type
208:     SELECT 0
209:     USE (m.new + "val") ALIAS newval
210:     LOCATE FOR id = m.newid
211:     SCATTER MEMVAR
212:     SELECT VAL
213:     SEEK m.uid
214:     IF !FOUND()
215:       APPEND BLANK
216:     ENDIF
217:     m.id = m.uid
218:     GATHER MEMVAR
219:     SELECT newval
220:     USE
221:   ELSE
222:     * update enumerated types
223:     * You can only append additional enumerated values
224:     SELECT enum
225:     SEEK m.uid
226:     m.exists = FOUND()
227:     m.uord = 0
228:     IF m.exists
229:       * next available ordinal value
230:       COUNT WHILE id = m.uid .AND. !EOF() TO m.uord
231:     ENDIF
232:     SELECT 0
233:     USE (m.new + "enum") ALIAS newenum
234:     LOCATE FOR id = m.newid
235:     DO WHILE id = m.newid .AND. !EOF()
236:       SCATTER MEMVAR
237:       m.unique = .F.
238:       IF m.exists
239:         * existing element, ensure enumeration is new
240:         SELECT enum
241:         SEEK m.uid
242:         mexact = SET("EXACT")
243:         SET EXACT ON
244:         DO WHILE id = m.uid .AND. !EOF()
245:           IF enumerate = m.enumerate
246:             m.unique = .F.
247:             EXIT
248:           ENDIF
249:         ENDIF
250:       ELSE
251:         m.exists = .F.
252:         m.id = m.id + m.qualid
253:         APPEND BLANK
254:       ENDIF
255:     ENDIF
256:   GATHER MEMVAR MEMO
257:   * item already exists
258:   * some fields cannot be edited - use existing values
259:   m.datatype = datatype
260:   m.exists = .T.
261:   m.id = id
262: ELSE
263:   m.exists = .F.
264:   m.id = m.id + m.qualid
265:   APPEND BLANK
266: ENDIF
267: GATHER MEMVAR MEMO
268: m.uid = m.id
269: IF m.datatype = "N"
270:   * update numeric type
271:   SELECT 0
272:   USE (m.new + "val") ALIAS newval
273:   LOCATE FOR id = m.newid
274:   SCATTER MEMVAR
275:   SELECT VAL
276:   SEEK m.uid
277:   IF !FOUND()
278:     APPEND BLANK
279:   ENDIF
280:   m.id = m.uid
281:   GATHER MEMVAR
282:   SELECT newval
283:   USE
284: ELSE
285:   * update enumerated types
286:   * You can only append additional enumerated values
287:   SELECT enum
288:   SEEK m.uid
289:   m.exists = FOUND()
290:   m.uord = 0
291:   IF m.exists
292:     * next available ordinal value
293:     COUNT WHILE id = m.uid .AND. !EOF() TO m.uord
294:   ENDIF
295:   SELECT 0
296:   USE (m.new + "enum") ALIAS newenum
297:   LOCATE FOR id = m.newid
298:   DO WHILE id = m.newid .AND. !EOF()
299:     SCATTER MEMVAR
300:     m.unique = .F.
301:     IF m.exists
302:       * existing element, ensure enumeration is new
303:       SELECT enum
304:       SEEK m.uid
305:       mexact = SET("EXACT")
306:       SET EXACT ON
307:       DO WHILE id = m.uid .AND. !EOF()
308:         IF enumerate = m.enumerate
309:           m.unique = .F.
310:           EXIT
311:         ENDIF
312:       ENDIF
313:     ELSE
314:       m.exists = .F.
315:       m.id = m.id + m.qualid
316:       APPEND BLANK
317:     ENDIF
318:   GATHER MEMVAR MEMO
319:   * item already exists
320:   * some fields cannot be edited - use existing values
321:   m.datatype = datatype
322:   m.exists = .T.
323:   m.id = id
324: ELSE
325:   m.exists = .F.
326:   m.id = m.id + m.qualid
327:   APPEND BLANK
328: ENDIF
329: GATHER MEMVAR MEMO
330: m.uid = m.id
331: IF m.datatype = "N"
332:   * update numeric type
333:   SELECT 0
334:   USE (m.new + "val") ALIAS newval
335:   LOCATE FOR id = m.newid
336:   SCATTER MEMVAR
337:   SELECT VAL
338:   SEEK m.uid
339:   IF !FOUND()
340:     APPEND BLANK
341:   ENDIF
342:   m.id = m.uid
343:   GATHER MEMVAR
344:   SELECT newval
345:   USE
346: ELSE
347:   * update enumerated types
348:   * You can only append additional enumerated values
349:   SELECT enum
350:   SEEK m.uid
351:   m.exists = FOUND()
352:   m.uord = 0
353:   IF m.exists
354:     * next available ordinal value
355:     COUNT WHILE id = m.uid .AND. !EOF() TO m.uord
356:   ENDIF
357:   SELECT 0
358:   USE (m.new + "enum") ALIAS newenum
359:   LOCATE FOR id = m.newid
360:   DO WHILE id = m.newid .AND. !EOF()
361:     SCATTER MEMVAR
362:     m.unique = .F.
363:     IF m.exists
364:       * existing element, ensure enumeration is new
365:       SELECT enum
366:       SEEK m.uid
367:       mexact = SET("EXACT")
368:       SET EXACT ON
369:       DO WHILE id = m.uid .AND. !EOF()
370:         IF enumerate = m.enumerate
371:           m.unique = .F.
372:           EXIT
373:         ENDIF
374:       ENDIF
375:     ELSE
376:       m.exists = .F.
377:       m.id = m.id + m.qualid
378:       APPEND BLANK
379:     ENDIF
380:   GATHER MEMVAR MEMO
381:   * item already exists
382:   * some fields cannot be edited - use existing values
383:   m.datatype = datatype
384:   m.exists = .T.
385:   m.id = id
386: ELSE
387:   m.exists = .F.
388:   m.id = m.id + m.qualid
389:   APPEND BLANK
390: ENDIF
391: GATHER MEMVAR MEMO
392: m.uid = m.id
393: IF m.datatype = "N"
394:   * update numeric type
395:   SELECT 0
396:   USE (m.new + "val") ALIAS newval
397:   LOCATE FOR id = m.newid
398:   SCATTER MEMVAR
399:   SELECT VAL
400:   SEEK m.uid
401:   IF !FOUND()
402:     APPEND BLANK
403:   ENDIF
404:   m.id = m.uid
405:   GATHER MEMVAR
406:   SELECT newval
407:   USE
408: ELSE
409:   * update enumerated types
410:   * You can only append additional enumerated values
411:   SELECT enum
412:   SEEK m.uid
413:   m.exists = FOUND()
414:   m.uord = 0
415:   IF m.exists
416:     * next available ordinal value
417:     COUNT WHILE id = m.uid .AND. !EOF() TO m.uord
418:   ENDIF
419:   SELECT 0
420:   USE (m.new + "enum") ALIAS newenum
421:   LOCATE FOR id = m.newid
422:   DO WHILE id = m.newid .AND. !EOF()
423:     SCATTER MEMVAR
424:     m.unique = .F.
425:     IF m.exists
426:       * existing element, ensure enumeration is new
427:       SELECT enum
428:       SEEK m.uid
429:       mexact = SET("EXACT")
430:       SET EXACT ON
431:       DO WHILE id = m.uid .AND. !EOF()
432:         IF enumerate = m.enumerate
433:           m.unique = .F.
434:           EXIT
435:         ENDIF
436:       ENDIF
437:     ELSE
438:       m.exists = .F.
439:       m.id = m.id + m.qualid
440:       APPEND BLANK
441:     ENDIF
442:   GATHER MEMVAR MEMO
443:   * item already exists
444:   * some fields cannot be edited - use existing values
445:   m.datatype = datatype
446:   m.exists = .T.
447:   m.id = id
448: ELSE
449:   m.exists = .F.
450:   m.id = m.id + m.qualid
451:   APPEND BLANK
452: ENDIF
453: GATHER MEMVAR MEMO
454: m.uid = m.id
455: IF m.datatype = "N"
456:   * update numeric type
457:   SELECT 0
458:   USE (m.new + "val") ALIAS newval
459:   LOCATE FOR id = m.newid
460:   SCATTER MEMVAR
461:   SELECT VAL
462:   SEEK m.uid
463:   IF !FOUND()
464:     APPEND BLANK
465:   ENDIF
466:   m.id = m.uid
467:   GATHER MEMVAR
468:   SELECT newval
469:   USE
470: ELSE
471:   * update enumerated types
472:   * You can only append additional enumerated values
473:   SELECT enum
474:   SEEK m.uid
475:   m.exists = FOUND()
476:   m.uord = 0
477:   IF m.exists
478:     * next available ordinal value
479:     COUNT WHILE id = m.uid .AND. !EOF() TO m.uord
480:   ENDIF
481:   SELECT 0
482:   USE (m.new + "enum") ALIAS newenum
483:   LOCATE FOR id = m.newid
484:   DO WHILE id = m.newid .AND. !EOF()
485:     SCATTER MEMVAR
486:     m.unique = .F.
487:     IF m.exists
488:       * existing element, ensure enumeration is new
489:       SELECT enum
490:       SEEK m.uid
491:       mexact = SET("EXACT")
492:       SET EXACT ON
493:       DO WHILE id = m.uid .AND. !EOF()
494:         IF enumerate = m.enumerate
495:           m.unique = .F.
496:           EXIT
497:         ENDIF
498:       ENDIF
499:     ELSE
500:       m.exists = .F.
501:       m.id = m.id + m.qualid
502:       APPEND BLANK
503:     ENDIF
504:   GATHER MEMVAR MEMO
505:   * item already exists
506:   * some fields cannot be edited - use existing values
507:   m.datatype = datatype
508:   m.exists = .T.
509:   m.id = id
510: ELSE
511:   m.exists = .F.
512:   m.id = m.id + m.qualid
513:   APPEND BLANK
514: ENDIF
515: GATHER MEMVAR MEMO
516: m.uid = m.id
517: IF m.datatype = "N"
518:   * update numeric type
519:   SELECT 0
520:   USE (m.new + "val") ALIAS newval
521:   LOCATE FOR id = m.newid
522:   SCATTER MEMVAR
523:   SELECT VAL
524:   SEEK m.uid
525:   IF !FOUND()
526:     APPEND BLANK
527:   ENDIF
528:   m.id = m.uid
529:   GATHER MEMVAR
530:   SELECT newval
531:   USE
532: ELSE
533:   * update enumerated types
534:   * You can only append additional enumerated values
535:   SELECT enum
536:   SEEK m.uid
537:   m.exists = FOUND()
538:   m.uord = 0
539:   IF m.exists
540:     * next available ordinal value
541:     COUNT WHILE id = m.uid .AND. !EOF() TO m.uord
542:   ENDIF
543:   SELECT 0
544:   USE (m.new + "enum") ALIAS newenum
545:   LOCATE FOR id = m.newid
546:   DO WHILE id = m.newid .AND. !EOF()
547:     SCATTER MEMVAR
548:     m.unique = .F.
549:     IF m.exists
550:       * existing element, ensure enumeration is new
551:       SELECT enum
552:       SEEK m.uid
553:       mexact = SET("EXACT")
554:       SET EXACT ON
555:       DO WHILE id = m.uid .AND. !EOF()
556:         IF enumerate = m.enumerate
557:           m.unique = .F.
558:           EXIT
559:         ENDIF
560:       ENDIF
561:     ELSE
562:       m.exists = .F.
563:       m.id = m.id + m.qualid
564:       APPEND BLANK
565:     ENDIF
566:   GATHER MEMVAR MEMO
567:   * item already exists
568:   * some fields cannot be edited - use existing values
569:   m.datatype = datatype
570:   m.exists = .T.
571:   m.id = id
572: ELSE
573:   m.exists = .F.
574:   m.id = m.id + m.qualid
575:   APPEND BLANK
576: ENDIF
577: GATHER MEMVAR MEMO
578: m.uid = m.id
579: IF m.datatype = "N"
580:   * update numeric type
581:   SELECT 0
582:   USE (m.new + "val") ALIAS newval
583:   LOCATE FOR id = m.newid
584:   SCATTER MEMVAR
585:   SELECT VAL
586:   SEEK m.uid
587:   IF !FOUND()
588:     APPEND BLANK
589:   ENDIF
590:   m.id = m.uid
591:   GATHER MEMVAR
592:   SELECT newval
593:   USE
594: ELSE
595:   * update enumerated types
596:   * You can only append additional enumerated values
597:   SELECT enum
598:   SEEK m.uid
599:   m.exists = FOUND()
600:   m.uord = 0
601:   IF m.exists
602:     * next available ordinal value
603:     COUNT WHILE id = m.uid .AND. !EOF() TO m.uord
604:   ENDIF
605:   SELECT 0
606:   USE (m.new + "enum") ALIAS newenum
607:   LOCATE FOR id = m.newid
608:   DO WHILE id = m.newid .AND. !EOF()
609:     SCATTER MEMVAR
610:     m.unique = .F.
611:     IF m.exists
612:       * existing element, ensure enumeration is new
613:       SELECT enum
614:       SEEK m.uid
615:       mexact = SET("EXACT")
616:       SET EXACT ON
617:       DO WHILE id = m.uid .AND. !EOF()
618:         IF enumerate = m.enumerate
619:           m.unique = .F.
620:           EXIT
621:         ENDIF
622:       ENDIF
623:     ELSE
624:       m.exists = .F.
625:       m.id = m.id + m.qualid
626:       APPEND BLANK
627:     ENDIF
628:   GATHER MEMVAR MEMO
629:   * item already exists
630:   * some fields cannot be edited - use existing values
631:   m.datatype = datatype
632:   m.exists = .T.
633:   m.id = id
634: ELSE
635:   m.exists = .F.
636:   m.id = m.id + m.qualid
637:   APPEND BLANK
638: ENDIF
639: GATHER MEMVAR MEMO
640: m.uid = m.id
641: IF m.datatype = "N"
642:   * update numeric type
643:   SELECT 0
644:   USE (m.new + "val") ALIAS newval
645:   LOCATE FOR id = m.newid
646:   SCATTER MEMVAR
647:   SELECT VAL
648:   SEEK m.uid
649:   IF !FOUND()
650:     APPEND BLANK
651:   ENDIF
652:   m.id = m.uid
653:   GATHER MEMVAR
654:   SELECT newval
655:   USE
656: ELSE
657:   * update enumerated types
658:   * You can only append additional enumerated values
659:   SELECT enum
660:   SEEK m.uid
661:   m.exists = FOUND()
662:   m.uord = 0
663:   IF m.exists
664:     * next available ordinal value
665:     COUNT WHILE id = m.uid .AND. !EOF() TO m.uord
666:   ENDIF
667:   SELECT 0
668:   USE (m.new + "enum") ALIAS newenum
669:   LOCATE FOR id = m.newid
670:   DO WHILE id = m.newid .AND. !EOF()
671:     SCATTER MEMVAR
672:     m.unique = .F.
673:     IF m.exists
674:       * existing element, ensure enumeration is new
675:       SELECT enum
676:       SEEK m.uid
677:       mexact = SET("EXACT")
678:       SET EXACT ON
679:       DO WHILE id = m.uid .AND. !EOF()
680:         IF enumerate = m.enumerate
681:           m.unique = .F.
682:           EXIT
683:         ENDIF
684:       ENDIF
685:     ELSE
686:       m.exists = .F.
687:       m.id = m.id + m.qualid
688:       APPEND BLANK
689:     ENDIF
690:   GATHER MEMVAR MEMO
691:   * item already exists
692:   * some fields cannot be edited - use existing values
693:   m.datatype = datatype
694:   m.exists = .T.
695:   m.id = id
696: ELSE
697:   m.exists = .F.
698:   m.id = m.id + m.qualid
699:   APPEND BLANK
700: ENDIF
701: GATHER MEMVAR MEMO
702: m.uid = m.id
703: IF m.datatype = "N"
704:   * update numeric type
705:   SELECT 0
706:   USE (m.new + "val") ALIAS newval
707:   LOCATE FOR id = m.newid
708:   SCATTER MEMVAR
709:   SELECT VAL
710:   SEEK m.uid
711:   IF !FOUND()
712:     APPEND BLANK
713:   ENDIF
714:   m.id = m.uid
715:   GATHER MEMVAR
716:   SELECT newval
717:   USE
718: ELSE
719:   * update enumerated types
720:   * You can only append additional enumerated values
721:   SELECT enum
722:   SEEK m.uid
723:   m.exists = FOUND()
724:   m.uord = 0
725:   IF m.exists
726:     * next available ordinal value
727:     COUNT WHILE id = m.uid .AND. !EOF() TO m.uord
728:   ENDIF
729:   SELECT 0
730:   USE (m.new + "enum") ALIAS newenum
731:   LOCATE FOR id = m.newid
732:   DO WHILE id = m.newid .AND. !EOF()
733:     SCATTER MEMVAR
734:     m.unique = .F.
735:     IF m.exists
736:       * existing element, ensure enumeration is new
737:       SELECT enum
738:       SEEK m.uid
739:       mexact = SET("EXACT")
740:       SET EXACT ON
741:       DO WHILE id = m.uid .AND. !EOF()
742:         IF enumerate = m.enumerate
743:           m.unique = .F.
744:           EXIT
745:         ENDIF
746:       ENDIF
747:     ELSE
748:       m.exists = .F.
749:       m.id = m.id + m.qualid
750:       APPEND BLANK
751:     ENDIF
752:   GATHER MEMVAR MEMO
753:   * item already exists
754:   * some fields cannot be edited - use existing values
755:   m.datatype = datatype
756:   m.exists = .T.
757:   m.id = id
758: ELSE
759:   m.exists = .F.
760:   m.id = m.id + m.qualid
761:   APPEND BLANK
762: ENDIF
763: GATHER MEMVAR MEMO
764: m.uid = m.id
765: IF m.datatype = "N"
766:   * update numeric type
767:   SELECT 0
768:   USE (m.new + "val") ALIAS newval
769:   LOCATE FOR id = m.newid
770:   SCATTER MEMVAR
771:   SELECT VAL
772:   SEEK m.uid
773:   IF !FOUND()
774:     APPEND BLANK
775:   ENDIF
776:   m.id = m.uid
777:   GATHER MEMVAR
778:   SELECT newval
779:   USE
780: ELSE
781:   * update enumerated types
782:   * You can only append additional enumerated values
783:   SELECT enum
784:   SEEK m.uid
785:   m.exists = FOUND()
786:   m.uord = 0
787:   IF m.exists
788:     * next available ordinal value
789:     COUNT WHILE id = m.uid .AND. !EOF() TO m.uord
790:   ENDIF
791:   SELECT 0
792:   USE (m.new + "enum") ALIAS newenum
793:   LOCATE FOR id = m.newid
794:   DO WHILE id = m.newid .AND. !EOF()
795:     SCATTER MEMVAR
796:     m.unique = .F.
797:     IF m.exists
798:       * existing element, ensure enumeration is new
799:       SELECT enum
800:       SEEK m.uid
801:       mexact = SET("EXACT")
802:       SET EXACT ON
803:       DO WHILE id = m.uid .AND. !EOF()
804:         IF enumerate = m.enumerate
805:           m.unique = .F.
806:           EXIT
807:         ENDIF
808:       ENDIF
809:     ELSE
810:       m.exists = .F.
811:       m.id = m.id + m.qualid
812:       APPEND BLANK
813:     ENDIF
814:   GATHER MEMVAR MEMO
815:   * item already exists
816:   * some fields cannot be edited - use existing values
817:   m.datatype = datatype
818:   m.exists = .T.
819:   m.id = id
820: ELSE
821:   m.exists = .F.
822:   m.id = m.id + m.qualid
823:   APPEND BLANK
824: ENDIF
825: GATHER MEMVAR MEMO
826: m.uid = m.id
827: IF m.datatype = "N"
828:   * update numeric type
829:   SELECT 0
830:   USE (m.new + "val") ALIAS newval
831:   LOCATE FOR id = m.newid
832:   SCATTER MEMVAR
833:   SELECT VAL
834:   SEEK m.uid
835:   IF !FOUND()
836:     APPEND BLANK
837:   ENDIF
838:   m.id = m.uid
839:   GATHER MEMVAR
840:   SELECT newval
841:   USE
842: ELSE
843:   * update enumerated types
844:   * You can only append additional enumerated values
845:   SELECT enum
846:   SEEK m.uid
847:   m.exists = FOUND()
848:   m.uord = 0
849:   IF m.exists
850:     * next available ordinal value
851:     COUNT WHILE id = m.uid .AND. !EOF() TO m.uord
852:   ENDIF
853:   SELECT 0
854:   USE (m.new + "enum") ALIAS newenum
855:   LOCATE FOR id = m.newid
856:   DO WHILE id = m.newid .AND. !EOF()
857:     SCATTER MEMVAR
858:     m.unique = .F.
859:     IF m.exists
860:       * existing element, ensure enumeration is new
861:       SELECT enum
862:       SEEK m.uid
863:       mexact = SET("EXACT")
864:       SET EXACT ON
865:       DO WHILE id = m.uid .AND. !EOF()
866:         IF enumerate = m.enumerate
867:           m.unique = .F.
868:           EXIT
869:         ENDIF
870:       ENDIF
871:     ELSE
872:       m.exists = .F.
873:       m.id = m.id + m.qualid
874:       APPEND BLANK
875:     ENDIF
876:   GATHER MEMVAR MEMO
877:   * item already exists
878:   * some fields cannot be edited - use existing values
879:   m.datatype = datatype
880:   m.exists = .T.
881:   m.id = id
882: ELSE
883:   m.exists = .F.
884:   m.id = m.id + m.qualid
885:   APPEND BLANK
886: ENDIF
887: GATHER MEMVAR MEMO
888: m.uid = m.id
889: IF m.datatype = "N"
890:   * update numeric type
891:   SELECT 0
892:   USE (m.new + "val") ALIAS newval
893:   LOCATE FOR id = m.newid
894:   SCATTER MEMVAR
895:   SELECT VAL
896:   SEEK m.uid
897:   IF !FOUND()
898:     APPEND BLANK
899:   ENDIF
900:   m.id = m.uid
901:   GATHER MEMVAR
902:   SELECT newval
903:   USE
904: ELSE
905:   * update enumerated types
906:   * You can only append additional enumerated values
907:   SELECT enum
908:   SEEK m.uid
909:   m.exists = FOUND()
910:   m.uord = 0
911:   IF m.exists
912:     * next available ordinal value
913:     COUNT WHILE id = m.uid .AND. !EOF() TO m.uord
914:   ENDIF
915:   SELECT 0
916:   USE (m.new + "enum") ALIAS newenum
917:   LOCATE FOR id = m.newid
918:   DO WHILE id = m.newid .AND. !EOF()
919:     SCATTER MEMVAR
920:     m.unique = .F.
921:     IF m.exists
922:       * existing element, ensure enumeration is new
923:       SELECT enum
924:       SEEK m.uid
925:       mexact = SET("EXACT")
926:       SET EXACT ON
927:       DO WHILE id = m.uid .AND. !EOF()
928:         IF enumerate = m.enumerate
929:           m.unique = .F.
930:           EXIT
931:         ENDIF
932:       ENDIF
933:     ELSE
934:       m.exists = .F.
935:       m.id = m.id + m.qualid
936:       APPEND BLANK
937:     ENDIF
938:   GATHER MEMVAR MEMO
939:   * item already exists
940:   * some fields cannot be edited - use existing values
941:   m.datatype = datatype
942:   m.exists = .T.
943:   m.id = id
944: ELSE
945:   m.exists = .F.
946:   m.id = m.id + m.qualid
947:   APPEND BLANK
948: ENDIF
949: GATHER MEMVAR MEMO
950: m.uid = m.id
951: IF m.datatype = "N"
952:   * update numeric type
953:   SELECT 0
954:   USE (m.new + "val") ALIAS newval
955:   LOCATE FOR id = m.newid
956:   SCATTER MEMVAR
957:   SELECT VAL
958:   SEEK m.uid
959:   IF !FOUND()
960:     APPEND BLANK
961:   ENDIF
962:   m.id = m.uid
963:   GATHER MEMVAR
964:   SELECT newval
965:   USE
966: ELSE
967:   * update enumerated types
968:   * You can only append additional enumerated values
969:   SELECT enum
970:   SEEK m.uid
971:   m.exists = FOUND()
972:   m.uord = 0
973:   IF m.exists
974:     * next available ordinal value
975:     COUNT WHILE id = m.uid .AND. !EOF() TO m.uord
976:   ENDIF
977:   SELECT 0
978:   USE (m.new + "enum") ALIAS newenum
979:   LOCATE FOR id = m.newid
980:   DO WHILE id = m.newid .AND. !EOF()
981:     SCATTER MEMVAR
982:     m.unique = .F.
983:     IF m.exists
984:       * existing element, ensure enumeration is new
985:       SELECT enum
986:       SEEK m.uid
987:       mexact = SET("EXACT")
988:       SET EXACT ON
989:       DO WHILE id = m.uid .AND. !EOF()
990:         IF enumerate = m.enumerate
991:           m.unique = .F.
992:           EXIT
993:         ENDIF
994:       ENDIF
995:     ELSE
996:       m.exists = .F.
997:       m.id = m.id + m.qualid
998:       APPEND BLANK
999:     ENDIF
1000:   GATHER MEMVAR MEMO
1001:   * item already exists
1002:   * some fields cannot be edited - use existing values
1003:   m.datatype = datatype
1004:   m.exists = .T.
1005:   m.id = id
1006: ELSE
1007:   m.exists = .F.
1008:   m.id = m.id + m.qualid
1009:   APPEND BLANK
1010: ENDIF
1011: GATHER MEMVAR MEMO
1012: m.uid = m.id
1013: IF m.datatype = "N"
1014:   * update numeric type
1015:   SELECT 0
1016:   USE (m.new + "val") ALIAS newval
1017:   LOCATE FOR id = m.newid
1018:   SCATTER MEMVAR
1019:   SELECT VAL
1020:   SEEK m.uid
1021:   IF !FOUND()
1022:     APPEND BLANK
1023:   ENDIF
1024:   m.id = m.uid
1025:   GATHER MEMVAR
1026:   SELECT newval
1027:   USE
1028: ELSE
1029:   * update enumerated types
1030:   * You can only append additional enumerated values
1031:   SELECT enum
1032:   SEEK m.uid
1033:   m.exists = FOUND()
1034:   m.uord = 0
1035:   IF m.exists
1036:     * next available ordinal value
1037:     COUNT WHILE id = m.uid .AND. !EOF() TO m.uord
1038:   ENDIF
1039:   SELECT 0
1040:   USE (m.new + "enum") ALIAS newenum
1041:   LOCATE FOR id = m.newid
1042:   DO WHILE id = m.newid .AND. !EOF()
1043:     SCATTER MEMVAR
1044:     m.unique = .F.
1045:     IF m.exists
1046:       * existing element, ensure enumeration is new
1047:       SELECT enum
1048:       SEEK m.uid
1049:       mexact = SET("EXACT")
1050:       SET EXACT ON
1051:       DO WHILE id = m.uid .AND. !EOF()
1052:         IF enumerate = m.enumerate
1053:           m.unique = .F.
1054:           EXIT
1055:         ENDIF
1056:       ENDIF
1057:     ELSE
1058:       m.exists = .F.
1059:       m.id = m.id + m.qualid
1060:       APPEND BLANK
1061:     ENDIF
1062:   GATHER MEMVAR MEMO
1063:   * item already exists
1064:   * some fields cannot be edited - use existing values
1065:   m.datatype = datatype
1066:   m.exists = .T.
1067:   m.id = id
1068: ELSE
1069:   m.exists = .F.
1070:   m.id = m.id + m.qualid
1071:   APPEND BLANK
1072: ENDIF
1073: GATHER MEMVAR MEMO
1074: m.uid = m.id
1075: IF m.datatype = "N"
1076:   * update numeric type
1077:   SELECT 0
1078:   USE (m.new + "val") ALIAS newval
1079:   LOCATE FOR id = m.newid
1080:   SCATTER MEMVAR
1081:   SELECT VAL
1082:   SEEK m.uid
1083:   IF !FOUND()
1084:     APPEND BLANK
1085:   ENDIF
1086:   m.id = m.uid
1087:   GATHER MEMVAR
1088:   SELECT newval
1089:   USE
1090: ELSE
1091:   * update enumerated types
1092:   * You can only append additional enumerated values
1093:   SELECT enum
1094:   SEEK m.uid
1095:   m.exists = FOUND()
1096:   m.uord = 0
1097:   IF m.exists
1098:     * next available ordinal value
1099:     COUNT WHILE id = m.uid .AND. !EOF() TO m.uord
1100:   ENDIF
1101:   SELECT 0
1102:   USE (m.new + "enum") ALIAS newenum
1103:   LOCATE FOR id = m.newid
1104:   DO WHILE id = m.newid .AND. !EOF()
1105:     SCATTER MEMVAR
1106:     m.unique = .F.
1107:     IF m.exists
1108:       * existing element, ensure enumeration is new
1109:       SELECT enum
1110:       SEEK m.uid
1111:       mexact = SET("EXACT")
1112:       SET EXACT ON
1113:       DO WHILE id = m.uid .AND. !EOF()
1114:         IF enumerate = m.enumerate
1115:           m.unique = .F.
1116:           EXIT
1117:         ENDIF
1118:       ENDIF
1119:     ELSE
1120:       m.exists = .F.
1121:       m.id = m.id + m.qualid
1122:       APPEND BLANK
1123:     ENDIF
1124:   GATHER MEMVAR MEMO
1125:   * item already exists
1126:   * some fields cannot be edited - use existing values
1127:   m.datatype = datatype
1128:   m.exists = .T.
1129:   m.id = id
1130: ELSE
1131:   m.exists = .F.
1132:   m.id = m.id + m.qualid
1133:   APPEND BLANK
1134: ENDIF
1135: GATHER MEMVAR MEMO
1136: m.uid = m.id
1137: IF m.datatype = "N"
1138:   * update numeric type
1139:   SELECT 0
1140:   USE (m.new + "val") ALIAS newval
1141:   LOCATE FOR id = m.newid
1142:   SCATTER MEMVAR
1143:   SELECT VAL
1144:   SEEK m.uid
1145:   IF !FOUND()
1146:     APPEND BLANK
1147:   ENDIF
1148:   m.id = m.uid
1149:   GATHER MEMVAR
1150:   SELECT newval
1151:   USE
1152: ELSE
1153:   * update enumerated types
1154:   * You can only append additional enumerated values
1155:   SELECT enum
1156:   SEEK m.uid
1157:   m.exists = FOUND()
1158:   m.uord = 0
1159:   IF m.exists
1160:     * next available ordinal value
1161:     COUNT WHILE id = m.uid .AND. !EOF() TO m.uord
1162:   ENDIF
1163:   SELECT 0
1164:   USE (m.new + "enum") ALIAS newenum
1165:   LOCATE FOR id = m.newid
1166:   DO WHILE id = m.newid .AND. !EOF()
1167:     SCATTER MEMVAR
1168:     m.unique = .F.
1169:     IF m.exists
1170:       * existing element, ensure enumeration is new
1171:       SELECT enum
1172:       SEEK m.uid
1173:       mexact = SET("EXACT")
1174:       SET EXACT ON
1175:       DO WHILE id = m.uid .AND. !EOF()
1176:         IF enumerate = m.enumerate
1177:           m.unique = .F.
1178:           EXIT
1179:         ENDIF
1180:       ENDIF
1181:     ELSE
1182:       m.exists = .F.
1183:       m.id = m.id + m.qualid
1184:       APPEND BLANK
1185:     ENDIF
1186:   GATHER MEMVAR MEMO
1187:   * item already exists
1188:   * some fields cannot be edited - use existing values
1189:   m.datatype = datatype
1190:   m.exists = .T.
1191:   m.id = id
1192: ELSE
1193:   m.exists = .F.
1194:   m.id = m.id + m.qualid
1195:   APPEND BLANK
1196: ENDIF
1197: GATHER MEMVAR MEMO
1198: m.uid = m.id
1199: IF m.datatype = "N"
1200:   * update numeric type
1201:   SELECT 0
1202:   USE (m.new + "val") ALIAS newval
1203:   LOCATE FOR id = m.newid
1204:   SCATTER MEMVAR
1205:   SELECT VAL
1206:   SEEK m.uid
1207:   IF !FOUND()
1208:     APPEND BLANK
1209:   ENDIF
1210:   m.id = m.uid
1211:   GATHER MEMVAR
1212:   SELECT newval
1213:   USE
1214: ELSE
1215:   * update enumerated types
1216:   *
```

```

259: SELECT newdis      && update id
260:   mguid[reco(j)] = m.id
261:   SKIP
262: ENDDO
263: USE
264: SELECT disease
265: SET ORDER TO 1
266:
267: *
268: *
269: * update help file
270: *
271: *
272: *
273: SELECT 0
274: USE kbhelp ALIAS HELP
275: SELECT 0
276: USE (m.new + "help") ALIAS newhelp
277:
278: DO WHILE !EOF()
279:   SCATTER MEMVAR
280:   m.details = details
281:   m.topic = UPPER(m.topic)
282:   SELECT HELP
283:   LOCATE FOR m.topic = UPPER(TOPIC)
284:   IF !FOUND()
285:     APPEND BLANK
286:     ENDIF
287:   GATHER MEMVAR
288:   REPLACE details WITH m.details
289:   SELECT newhelp
290:   SKIP
291: ENDDO
292: USE
293: SELECT HELP
294: USE
295:
296: *
297: *
298: * Get the new knowledge base descriptor
299: *
300: *
301: *
302: SELECT 0
303: USE (m.new + "area") ALIAS newarea
304: SCATTER MEMVAR
305: USE
306:
307: * Lookup knowledge base name (case insensitive)
308: SELECT area
309: LOCATE FOR LOWER(TRIM(name)) = LOWER( TRIM( m.name ) ) && lookup by
310: name
311: IF FOUND()
312:   m.area = area
313: ELSE
314:   * new knowledge base
315:   GOTO BOTTOM
316:   m.area = area + 1
317:   APPEND BLANK
318:   ENDIF
319:   m.newreco = RECO()
320:   GATHER MEMVAR
321: *
322: *
323: * delete existing rules in knowledge base

```

```

324: *
325: *
326: SELECT rule
327: SEEK m.area
328: DO WHILE area = m.area .AND. !EOF()
329:   SELECT premise
330:   SEEK rule.premise
331:   DO WHILE clause = rule.premise
332:     IF EMPTY( premise.op )
333:       SELECT fact
334:       DELETE FOR clause = premise.fact && delete all premise cla
335:     ENDIF
336:     SELECT premise
337:     DELETE
338:     SKIP
339:   ENDDO
340:   SELECT action
341:   DELETE FOR clause = rule.action && delete all action clauses
342:   DELETE FOR clause = rule.else && delete all else clauses
343:   SELECT rule
344:   DELETE
345:   SKIP
346: ENDDO
347:
348: *
349: *
350: * prepare fact database
351: *
352: *
353: SELECT fact
354: PACK
355: GOTO BOTTOM
356: m.fact = clause
357:
358: * update fact clauses
359: SELECT 0
360: USE (m.new + "fact")
361: COPY TO "tempxxxx"
362: USE ("tempxxxx")
363: REPLACE ALL clause WITH m.fact + clause
364: REPLACE ALL id WITH ;
365: IF(OBJECT = "ID", mguid[ ASCAN(mgid, id) ], ;
366:   mguid[ ASCAN(mgid, id) ])
367: * update any indirect references
368: GOTO TOP
369:
370: DO WHILE !EOF()
371:   m.val = VAL
372:   FOR i = 1 TO 2
373:     K = AT( "a", m.val, i )
374:     IF K = 0
375:       EXIT
376:     ENDIF
377:     m.id = VAL ( SUBSTR( m.val, K + 1 ) )
378:     m.newid = mguid[ ASCAN( mgid, m.id ) ]
379:     m.val = STRTRAN( m.val, LTRIM( STR( m.id ) ), LTRIM( STR( m.ne
380:   => wid ) )
381:   NEXT
382:   REPLACE VAL WITH m.val
383:   SKIP
384: ENDDO
385:
386: USE
387: SELECT fact
388: APPEND FROM ("tempxxxx")
389: && load new facts

```

```

388: DELETE FILE "tempxxxx.dbf"      && remove temporary files
389: *-----
390: *
391: * prepare premise database
392: *-----
393: *
394: *
395: SELECT premise
396: PACK
397: GOTO BOTTOM
398: m.premise = clause
399: *
400: * update premises clauses
401: SELECT 0
402: USE (m.new + "premise")
403: COPY TO "tempxxxx"
404: USE ("tempxxxx")
405: REPLACE ALL clause WITH m.premise + clause
406: REPLACE ALL fact WITH m.fact + fact FOR EMPTY(op)
407: USE
408: SELECT premise
409: APPEND FROM ("tempxxxx")
410: DELETE FILE "tempxxxx.dbf"
411: *-----
412: *
413: * prepare action database
414: *-----
415: *
416: *
417: *
418: SELECT action
419: PACK
420: GOTO BOTTOM
421: m.action = clause
422: *
423: * update action clauses
424: SELECT 0
425: USE (m.new + "action")
426: COPY TO "tempxxxx"
427: USE ("tempxxxx")
428: REPLACE ALL ;
429:   clause WITH m.action + clause
430:   REPLACE ALL id WITH ;
431:   IIF(OBJECT = "D", mguid[ ASCAN(mgid, id) ], ;
432:   mguid[ ASCAN(mgid, id) ])
433: * update any indirect references
434: GOTO TOP
435: *
436: *
437: *
438: *
439: *
440: *
441: *
442: *
443: *
444: *
445: *
446: *
447: *
448: *
449: *
450: *
451: *
452: *

```

```

453: DELETE FILE "tempxxxx.dbf"      && remove temporary files
454: *-----
455: *
456: * update rulebase
457: *-----
458: *
459: *
460: * Count the rules in new knowledge base
461: SELECT 0
462: USE (m.new + "rule")
463: REPLACE area.rules WITH RECOUNT()
464: => count
465: *
466: *
467: *
468: *
469: *
470: *
471: *
472: *
473: *
474: *
475: *
476: *
477: *
478: *
479: *
480: *
481: *
482: *
483: *
484: *
485: *
486: *
487: *
488: *
489: *
490: *
491: *
492: *
493: *
494: *
495: *
496: *
497: *
498: *
499: *
500: *
501: *
502: *
503: *
504: *
505: *
506: *
507: *
508: *
509: *
510: *
511: *
512: *
513: *
514: *
515: *
516: *
517: *

```

```

518: APPEND FROM ("tempxxxx")
519: DELETE FILE "tempxxxx.dbf"
520:
521: *-----
522: * prepare qualifiers
523: *
524: *-----
525: *-----
526: SELECT quals
527: DELETE FOR area = m.area
528: PACK
529: COPY STRUCTURE TO (m.new + "quals")
530: SELECT 0
531: USE (m.new + "quals") ALIAS newquals
532: INDEX ON id TO (m.new + "quals")
533: SET INDEX TO (m.new + "quals")
534:
535: *-----
536: * generate rule ==> qualifier cross-references
537: *
538: *-----
539: *-----
540: SELECT rule
541: SEEK m.area
542:
543: && set filters
544:
545: DO WHILE area = m.area .AND. !EOF() && process the rulebase
546: * process rule input cross-references
547: SELECT premise
548: *-----
549: *-----
550: *-----
551: *-----
552: *-----
553: *-----
554: *-----
555: *-----
556: *-----
557: *-----
558: *-----
559: *-----
560: *-----
561: *-----
562: *-----
563: *-----
564: *-----
565: *-----
566: *-----
567: *-----
568: *-----
569: *-----
570: *-----
571: *-----
572: *-----
573: *-----
574: *-----
575: *-----
576: *-----
577: *-----
578: *-----
579: *-----
580: *-----

```

```

581:
582:
583:
584: => + m.s
585:
586:
587:
588:
589:
590:
591:
592:
593:
594:
595:
596:
597:
598:
599:
600:
601:
602:
603:
604:
605:
606:
607:
608:
609:
610:
611:
612:
613:
614:
615:
616:
617:
618:
619:
620:
621:
622:
623:
624:
625:
626:
627:
628:
629:
630:
631:
632:
633:
634:
635:
636:
637:
638:
639:
640:
641:
642:
643:
644:
645:

```

```

646: APPEND FROM (m.new + "quals.dbf")
647: DELETE FILE (m.new + "quals.dbf")
648: DELETE FILE (m.new + "quals.idx")
649: DELETE FILE (m.new + "quals.fpt")
650: DELETE FILE (m.new + "area.dbf")
651: DELETE FILE (m.new + "rule.dbf")
652: DELETE FILE (m.new + "rule.dbt")
653: DELETE FILE (m.new + "premise.dbf")
654: DELETE FILE (m.new + "fact.dbf")
655: DELETE FILE (m.new + "fact.dbt")
656: DELETE FILE (m.new + "action.dbf")
657: DELETE FILE (m.new + "action.dbt")
658: DELETE FILE (m.new + "disease.dbf")
659: DELETE FILE (m.new + "disease.dbt")
660: DELETE FILE (m.new + "dict.dbf")
661: DELETE FILE (m.new + "val.dbf")
662: DELETE FILE (m.new + "enum.dbf")
663: DELETE FILE (m.new + "goals.dbf")
664: DELETE FILE (m.new + "display.dbf")
665: DELETE FILE (m.new + "help.dbf")
666: DELETE FILE (m.new + "help.dbt")
667:
668: SELECT area
669: GOTO m.newreco
670:
671: * close unused database
672: SELECT fact
673: USE
674: SELECT premise
675: USE
676: SELECT action
677: USE
678: SELECT rule
679: USE
680:
681: <---RETURN
682:
683: *: EOF: KBLDR.act

```



```

291:  _CASE mbuttons = 1  && Edit
292:  _IF ma > 0
293:  _DO edact
294:  _ENDIF
295:  _CASE mbuttons = 2  && Quit
296:  _CLEAR READ
297:  _ENDCASE
298:
299:  *
300:  *
301:  *
302:  *
303:  *
304:  *
305:  *
306:  *
307:  *
308:  *
309:  *
310:  *
311:  *
312:  *
313:  *
314:  *
315:  *
316:  *
317:  *
318:  *
319:  *
320:  *
321:  *
322:  *
323:  *
324:  *
325:  *
326:  *
327:  *
328:  *
329:  *
330:  *
331:  *
332:  *
333:  *
334:  *
335:  *
336:  *
337:  *
338:  *
339:  *
340:  *
341:  *
342:  *
343:  *
344:  *
345:  *
346:  *
347:  *
348:  *
349:  *
350:  *
351:  *
352:  *
353:  *
354:  *
355:  *
356:  *

```

_QSFOKOX9D
 Function Origin:
 From Platform: Windows
 From Screen: ACTION,
 Variable: ma
 Called By: VALID Clause
 Object Type: List
 Snippet Number: 2

ma VALID
 Record Number: 3

FUNCTION _qsfofox9d && ma VALID
 #REGION 1
 DO edact

_QSFOKOXVA
 Function Origin:
 From Platform: MS-DOS
 From Screen: ACTION,
 Variable: mbuttons
 Called By: VALID Clause
 Object Type: Push Button
 Snippet Number: 3

mbuttons VALID
 Record Number: 6

FUNCTION _qsfofoxva && mbuttons VALID
 #REGION 1
 DO CASE
 _CASE mbuttons = 1 && DELETE
 SEEK rule.action
 DO WHILE clause = rule.action
 DELETE
 SKIP
 ENDDO
 PACK
 mok = .f.
 _CASE mbuttons = 2 && ok
 mok = .t.
 _CASE mbuttons = 3 && cancel
 mok = .f.
 _ENDCASE

_QSFOKOY50
 Function Origin:
 From Platform: MS-DOS

mebutton VALID

```

230:  DEFAULT 1;
231:  _VALID _qsfofox8a(
232:  @ 1,1 GET _ma;
233:  _PICTURE "%a%N";
234:  _FROM act;
235:  _SIZE 10,61;
236:  _DEFAULT 1;
237:  _VALID _qsfofoxcp( );
238:  _COLOR _SCHEME 2
239:
240:  _IF NOT _WISIBLE("%a act")
241:  _ACTIVATE WINDOW _w_act
242:  _ENDIF
243:
244:  _READ CYCLE MODAL
245:
246:  _RELEASE WINDOW _w_act
247:
248:  _#REGION 0
249:  _IF m.talkstat = "ON"
250:  _SET TALK ON
251:  _ENDIF
252:  _IF m.compstat = "ON"
253:  _SET COMPATIBLE ON
254:  _ENDIF
255:
256:  *
257:  *
258:  *
259:  *
260:  *
261:  *
262:  *
263:  *
264:  *
265:  *
266:  *
267:  *
268:  *
269:  *
270:  *
271:  *
272:  *
273:  *
274:  *
275:  *
276:  *
277:  *
278:  *
279:  *
280:  *
281:  *
282:  *
283:  *
284:  *
285:  *
286:  *
287:  *
288:  *
289:  *
290:  *

```

ACTION/MS-DOS Cleanup Code

_QSFOKOV5V
 Function Origin:
 From Platform: Windows
 From Screen: ACTION,
 Variable: mbuttons
 Called By: VALID Clause
 Object Type: Push Button
 Snippet Number: 1

mbuttons VALID
 Record Number: 2

FUNCTION _qsfofox5v && mbuttons VALID
 #REGION 1
 SELECT (mselect)
 RETURN
 _ENDCASE

357: 358: 359: 360: 361: 362: 363: 364: 365: 366: 367: 370: 371: 372: 373: 374: 375: 376: 377: 378: 379: 380: 381: 382: 383: 384: 385: 386: 387: 388: 389: 390: 391: 392: 393: 394: 395: 396: 397: 398: 399: 400: 401: 402: 403: 404: 405: 406: 407: 408: 409: 410: 411: 412: 413: 414: 415: 416: 417: 418: 419: 420: 421: 422:

DO
#R
FU

* * * * *

44

PR m m SE AF RE DC IF EN SE DC * *

* * * * *

3

Doc #

*

1. *Journal of Management Studies*, 1996, 33, 1, 1-14.

08/09/94	ACTELSE.SPR	09:39:18
Author's Name		
Copyright (c) 1994 Company Name		
Address		
City,	Zip	
Description: This program was automatically generated by GENSCRN.		

```

1:
2:
3:
4:
5:
6:
7:
8:
9:
10:
11:
12:
13:
14:
15:
16:
17:
18:
19:
20:
21:
22:
23:
24:
25:
26:
27:
28:
29:
30:
31:
32:
33:
34:
35:
36:
37:
38:
39:
40:
41:
42:
43:
44:
45:
46:
47:
48:
49:
50:
51:
52:
53:
54:
55:
56:
57:
58:
59:
60:
61:

```

```

DO CASE
CASE _WINDOWS

```

```

#REGION 0
REGIONAL m.curraera, m.talkstat, m.compstat

```

```

IF SET("TALK") = "ON"
SET TALK OFF
m.talkstat = "ON"
ELSE
m.talkstat = "OFF"
ENDIF

```

```

m.compstat = SET("COMPATIBLE")
SET COMPATIBLE FOXPLUS
m.rborder = SET("READBORDER")
SET readborder ON

```

Windows Window definitions

```

IF NOT WEXIST("w_act");
OR UPPER(WTITLE("w_act")) = "w_act.pjx" ;
OR UPPER(WTITLE("w_act")) = "w_act.scx" ;
OR UPPER(WTITLE("w_act")) = "w_act.mnx" ;
OR UPPER(WTITLE("w_act")) = "w_act.prg" ;
OR UPPER(WTITLE("w_act")) = "w_act.frx" ;
OR UPPER(WTITLE("w_act")) = "w_act.qpr" ;
DEFINE WINDOW w_act ;
AT 0.000,0.000 ;
SIZE 14.333,57.000 ;
TITLE "Action [ELSE] se) Editor" ;
FONT "Terminal", 8 ;
FLOAT ;
CLOSE ;
SHADOW ;
NOMINIMIZE ;
COLOR RGB(,,,0,255,255)
MOVE WINDOW w_act CENTER

```

```

ENDIF

```

ACTELSE/Windows Setup Code - SECTION 2

```

#REGION 1
EXTERNAL ARRAY actelse
PRIVATE mselect, mok
mselect = SELECT()
SELECT action
IF EOF()
=errmsg("No <Else> statement !!!",1)
ENDIF

```

ACTELSE/Windows Screen Layout

```

#REGION 1
IF WVISIBLE("w_act")
ACTIVATE WINDOW w_act SAME
ELSE
ACTIVATE WINDOW w_act NOSHOW
ENDIF
@ 4.333,47.750 GET mbuttons ;
PICTURE "a*\N \<Edit>\<Quit>" ;
SIZE 2.583,7.500,1.083 ;
DEFAULT 1 ;
FONT "Terminal", 8 ;
VALID _qsfokp07d()
@ 2.000,2.375 GET me ;
PICTURE "a&n" ;
FROM actelse ;
SIZE 10.500,43.250 ;
DEFAULT 1 ;
FONT "Terminal", 8 ;
VALID _qsfokp0ar()

IF NOT WVISIBLE("w_act")
ACTIVATE WINDOW w_act
ENDIF

```

```

READ CYCLE MODAL
RELEASE WINDOW w_act
#REGION 0

```



```

230: VALID _qsf0kp0yp(
231: @ 1,1 GET me ;
232: PICTURE "a&n" ;
233: FROM actelse ;
234: SIZE 10,61 ;
235: DEFAULT 1 ;
236: VALID _qsf0kp13m( ;
237: COLOR SCHEME 2
238:
239: IF NOT WVISIBLE("w act")
240: ACTIVATE WINDOW w_act
241: ENDIF
242:
243: READ CYCLE MODAL
244:
245: RELEASE WINDOW w_act
246:
247: #REGION 0
248: IF m.talkstat = "ON"
249: SET TALK ON
250: ENDIF
251: IF m.compstat = "ON"
252: SET COMPATIBLE ON
253: ENDIF
254:
255:
256:
257:
258:
259:
260:
261:
262:
263:
264:
265: #REGION 1
266: SELECT (mselect)
267: RETURN
268:
269:
270:
271:
272:
273:
274:
275:
276:
277:
278:
279:
280:
281:
282:
283:
284:
285:
286:
287: FUNCTION _qsf0kp07d    && mbuttons VALID
288: #REGION 1
289: DO CASE
290: CASE mbuttons = 1    && Edit

```

```

291:
292: DO edelse
293: ENDIF
294: CASE mbuttons = 2    && ok
295: CLEAR READ
296: ENDCASE
297:
298:
299:
300:
301:
302:
303:
304:
305:
306:
307:
308:
309:
310:
311: FUNCTION _qsf0kp0ar    && me VALID
312: #REGION 1
313: DO edelse
314:
315:
316:
317:
318:
319:
320:
321:
322:
323:
324:
325:
326:
327:
328:
329:
330:
331:
332:
333: FUNCTION _qsf0kp0s3    && mbuttons VALID
334: #REGION 1
335: DO CASE
336: CASE mbuttons = 1    && DELETE
337: SEEK rule.else
338: DO WHILE clause = rule.else
339: DELETE
340: SKIP
341: ENDDO
342: PACK
343: mok = .f.
344: CASE mbuttons = 2    && ok
345: mok = .t.
346: CASE mbuttons = 3    && cancel
347: mok = .f.
348: ENDCASE
349:
350:
351:
352:
353:
354:
355:
356:

```

_QSF0KP0AR	me	VALID
Function Origin:	Windows	Record Number: 3
From Platform:	ACTELSE,	
Variable:	me	
Called By:	VALID Clause	
Object Type:	List	
Snippet Number:	2	

_QSF0KP0S3	mbuttons	VALID
Function Origin:	MS-DOS	Record Number: 6
From Platform:	ACTELSE,	
Variable:	mbuttons	
Called By:	VALID Clause	
Object Type:	Push Button	
Snippet Number:	3	

_QSF0KP0W3	mbutton	VALID
Function Origin:	MS-DOS	Record Number: 7
From Platform:	ACTELSE,	
From Screen:		

[illegible]

PROCEDURE


```

489: DO CASE
490: CASE DOS
491: EXTERNAL ARRAY actelser
492: SET TOPIC TO "ADD"
493: SELECT "ACTION"
494: SCATTER MEMVAR BLANK
495: m.clause = rule.else
496: DO clause.spr
497: DO setelse
498: SHOW GETS
499: mtopic = ALIAS()
500: SET TOPIC TO &mtopic
501: RETURN
502:
503: CASE WINDOWS
504: EXTERNAL ARRAY actelser
505: SET TOPIC TO "ADD"
506: SELECT "ACTION"
507: SCATTER MEMVAR BLANK
508: m.clause = rule.else
509: DO clause.spr
510: DO setelse
511: SHOW GETS
512: mtopic = ALIAS()
513: SET TOPIC TO &mtopic
514: RETURN
515:
516: ENDCASE
517:
518: *
519: *
520: *
521: *
522: *
523: *
524: *
525:
526: FUNCTION addnewelse
527: PRIVATE m.sel
528: m.sel = SELECT()
529: SELECT action
530: m.action = m.clause
531: DO clause.spr WITH m.action
532: SEEK m.action
533: IF FOUND()
534: SELECT rule
535: REPLACE ELSE WITH m.action
536: ENDF
537: SELECT (m.sel)
538: DO setelse
539: RETURN
540: *: EOF: ACTELSE.ac1

```

ACTELSE Function ADDNEWELSE

CLAUSE.AC1 10-3-94 3:01p

CLAUSE.ACT 10-3-94 3:01p

```

428: *
429: *
430: *
431: *
432: *
433: *
434: #REGION 1
435: IF mok
436: IF m.adding
437: REPLACE clause WITH m.clause
438: ENDIF
439: m.val = ALLTRIM(m.val)
440: GATHER MEMVAR
441: IF m.tag = "T" .OR. LEN(m.val) > LEN(VAL)
442: REPLACE TEXT WITH m.val, TAG WITH "T", VAL WITH " "
443: ENDIF
444: IF LEFT(mtype,1) = "G"
445: m.temp = rule.goals
446: m.search = insnewid(am.temp,m.id)
447: IF !m.search
448: m.cur = SELECT()
449: SELECT rule
450: REPLACE goals WITH m.temp
451: SELECT (m.cur)
452: RELEASE meme m.cur
453: ENDIF
454: ELSE
455: m.temp = rule.qual
456: m.search = insnewid(am.temp,m.id)
457: IF !m.search
458: m.cur = SELECT()
459: SELECT rule
460: REPLACE qual WITH m.temp
461: SELECT (m.cur)
462: RELEASE meme m.cur
463: ENDIF
464: ELSE
465: IF m.mrcco[1] > 0
466: SELECT dict
467: GOTO m.mrcco[1]
468: ENDIF
469: IF m.mrcco[2] > 0
470: SELECT disease
471: GOTO m.mrcco[2]
472: ENDIF
473: SELECT (mselect)
474: RETURN
475: ENDIF
476: ENDIF
477: ENDIF
478: RETURN
479: ENDIF
480:
481:
482:
483:
484:
485:
486:
487:
488:

```

Function Origin:
_QSFOKP3SZ minval VALID

Function Origin:

```

489: *
490: *
491: * From Platform: Windows
492: * Variable: minval
493: * Called By: VALID Clause
494: * Snippet Number: 1
495: *
496: *
497: *
498: * FUNCTION _qsf0kp3sz && minval VALID
499: *
500: * #REGION 1_
501: * DO CASE
502: * CASE m.object = "S"
503: * CASE dict.datatype = "N" .OR. dict.datatype = "C"
504: * SHOW GET m.val ENABLE
505: * Curobj = OBJNUM(m.val)
506: * CASE dict.datatype = "L" .OR. dict.datatype = "E" .OR. dict.datatype
507: * = "M"
508: * SELECT enum
509: * BROWSE FOR id = dict.id NOEDIT
510: * m.val = ALLTRIM(enumerate)
511: * SELECT (mselect)
512: * ENDCASE
513: * CASE m.object = "D"
514: * SHOW GET m.val ENABLE
515: * Curobj = OBJNUM(m.val)
516: * ENDCASE
517: * SHOW GETS
518: *
519: *
520: *
521: *
522: *
523: *
524: *
525: *
526: *
527: *
528: *
529: *
530: *
531: *
532: *
533: * FUNCTION _qsf0kp3x2 && minvbutton VALID
534: *
535: * #REGION 1_
536: * PRIVATE msel
537: * msel = SELECT( )
538: * DO CASE
539: * CASE m.object = "S"
540: * SELECT dict
541: * IF datatype = "N" .OR. datatype = "C"
542: * SHOW GET m.val ENABLE
543: * ELSE
544: * SHOW GET m.val DISABLE
545: * ENDF
546: * CASE m.object = "D"
547: * SELECT disease
548: * SHOW GET m.val ENABLE
549: * ENDCASE
550: * BROWSE NOEDIT
551: * m.id = id
552: * mobj = name
553: * SELECT (msel)
554: * SHOW GETS

```

CLAUSE.AC1 10-3-94 3:01p

```

554: *
555: *
556: *
557: *
558: *
559: *
560: *
561: *
562: *
563: *
564: *
565: *
566: *
567: *
568: *
569: *
570: *
571: * FUNCTION _qsf0kp435 && mbuttons VALID
572: *
573: * DO CASE
574: * CASE mbuttons = 1 && delete
575: * m.sure = yesno("Sure you want to delete?", "YES", "NO")
576: * IF m.sure
577: * delete
578: * pack
579: * ENDF
580: * m.id = 0
581: * m.op = " "
582: * m.val = " "
583: * mok = .f.
584: * CASE mbuttons = 1 && ok
585: * mok = .t.
586: * CASE mbuttons = 2 && cancel
587: * mok = .f.
588: * ENDCASE
589: *
590: *
591: *
592: *
593: *
594: *
595: *
596: *
597: *
598: *
599: *
600: *
601: *
602: *
603: *
604: *
605: *
606: *
607: *
608: *
609: *
610: *
611: *
612: *
613: *
614: *
615: *
616: *
617: *
618: *
619: *

```

_qsf0kp435

Function Origin:

Windows
 From Platform: Clause,
 From Screen: mbuttons
 Variable: mbuttons
 Called By: VALID Clause
 Object Type: Push Button
 Snippet Number: 3

Record Number: 8

_qsf0kp472

Function Origin:

Windows
 From Platform: Clause,
 From Screen: mtype
 Variable: mtype
 Called By: VALID Clause
 Object Type: PopUp
 Snippet Number: 4

Record Number: 9

```

620: m.id = id
621: mobj = name
622: SELECT (mselect)
623: SHOW GETS

```

```

624: *
625: *
626: *
627: *
628: *
629: *
630: *
631: *
632: *
633: *
634: *
635: *
636: *
637: *
638: *
639: *
640: *
641: *
642: *
643: *
644: *
645: *
646: *
647: *
648: *
649: *
650: *
651: *
652: *
653: *
654: *
655: *
656: *
657: *
658: *
659: *
660: *
661: *
662: *
663: *
664: *
665: *
666: *
667: *
668: *
669: *
670: *
671: *
672: *
673: *
674: *
675: *
676: *
677: *
678: *
679: *
680: *
681: *
682: *
683: *
684: *

```

```

640: FUNCTION _qsf0kp5hs    && mtype VALID

```

```

641: #REGION 1
642: m.object = LEFT( mtype, 1 )
643: m.object = CHRTRAN( m.object, 'GQ', 'DS' )
644: IF m.object = "S"

```

```

645: SELECT dict

```

```

646: IF datatype = "N" .OR. datatype = "C"

```

```

647: SHOW GET m.val ENABLE

```

```

648: ELSE

```

```

649: SHOW GET m.val DISABLE

```

```

650: ENDIF

```

```

651: SELECT disease

```

```

652: SHOW GET m.val ENABLE

```

```

653: ENDIF

```

```

654: m.id = id

```

```

655: mobj = name

```

```

657: SELECT (mselect)

```

```

659: SHOW GETS

```

```

660: *
661: *
662: *
663: *
664: *
665: *
666: *
667: *
668: *
669: *
670: *
671: *
672: *
673: *
674: *
675: *
676: *
677: *
678: *
679: *
680: *
681: *
682: *
683: *
684: *

```

```

660: FUNCTION _qsf0kp5lz

```

```

661: minval VALID

```

```

662: *
663: *
664: *
665: *
666: *
667: *
668: *
669: *
670: *
671: *
672: *
673: *
674: *
675: *
676: *
677: *
678: *
679: *
680: *
681: *
682: *
683: *
684: *

```

```

660: Function Origin:

```

```

661: From Platform:

```

```

662: From Screen:

```

```

663: Variable:

```

```

664: Called By:

```

```

665: Snippet Number:

```

```

666: *
667: *
668: *
669: *
670: *
671: *
672: *
673: *
674: *
675: *
676: *
677: *
678: *
679: *
680: *
681: *
682: *
683: *
684: *

```

```

660: MS-DOS

```

```

661: CLAUSE,

```

```

662: minval

```

```

663: VALID Clause

```

```

664: *
665: *
666: *
667: *
668: *
669: *
670: *
671: *
672: *
673: *
674: *
675: *
676: *
677: *
678: *
679: *
680: *
681: *
682: *
683: *
684: *

```

```

660: Record Number:

```

```

661: 22

```

```

662: *
663: *
664: *
665: *
666: *
667: *
668: *
669: *
670: *
671: *
672: *
673: *
674: *
675: *
676: *
677: *
678: *
679: *
680: *
681: *
682: *
683: *
684: *

```

```

660: FUNCTION _qsf0kp5lz    && minval VALID

```

```

661: #REGION 1

```

```

662: CASE m.object = "S"

```

```

663: DO CASE

```

```

664: CASE dict.datatype = "N" .OR. dict.datatype = "C"

```

```

665: SHOW GET m.val ENABLE

```

```

666: CUROBJ = OBJNUM(m.val)

```

```

667: CASE dict.datatype = "L" .OR. dict.datatype = "E" .OR. dict.datatype

```

```

668: => pe = "N"

```

```

685: SELECT enum
686: BROWSE FOR id = dict.id NOEDIT
687: m.val = ALLTRIM(enumerate)
688: SELECT (mselect)
689: END CASE

```

```

690: CASE m.object = "D"

```

```

691: SHOW GET m.val ENABLE

```

```

692: CUROBJ = OBJNUM(m.val)

```

```

693: END CASE

```

```

694: SHOW GETS

```

```

695: *
696: *
697: *
698: *
699: *
700: *
701: *
702: *
703: *
704: *
705: *
706: *
707: *
708: *
709: *
710: *
711: *
712: *
713: *
714: *
715: *
716: *
717: *
718: *
719: *
720: *
721: *
722: *
723: *
724: *
725: *
726: *
727: *
728: *
729: *
730: *
731: *
732: *
733: *
734: *
735: *
736: *
737: *
738: *
739: *
740: *
741: *
742: *
743: *
744: *
745: *
746: *
747: *
748: *
749: *
750: *

```

```

695: _qsf0kp5q1

```

```

696: Function Origin:

```

```

697: From Platform:

```

```

698: From Screen:

```

```

699: Variable:

```

```

700: Called By:

```

```

701: Snippet Number:

```

```

702: *
703: *
704: *
705: *
706: *
707: *
708: *
709: *
710: *
711: *
712: *
713: *
714: *
715: *
716: *
717: *
718: *
719: *
720: *
721: *
722: *
723: *
724: *
725: *
726: *
727: *
728: *
729: *
730: *
731: *
732: *
733: *
734: *
735: *
736: *
737: *
738: *
739: *
740: *
741: *
742: *
743: *
744: *
745: *
746: *
747: *
748: *
749: *
750: *

```

```

695: minbutton VALID

```

```

696: MS-DOS

```

```

697: CLAUSE,

```

```

698: minbutton

```

```

699: VALID Clause

```

```

700: *
701: *
702: *
703: *
704: *
705: *
706: *
707: *
708: *
709: *
710: *
711: *
712: *
713: *
714: *
715: *
716: *
717: *
718: *
719: *
720: *
721: *
722: *
723: *
724: *
725: *
726: *
727: *
728: *
729: *
730: *
731: *
732: *
733: *
734: *
735: *
736: *
737: *
738: *
739: *
740: *
741: *
742: *
743: *
744: *
745: *
746: *
747: *
748: *
749: *
750: *

```

```

695: FUNCTION _qsf0kp5q1    && minbutton VALID

```

```

696: #REGION 1

```

```

697: PRIVATE msel

```

```

698: msel = SELECT()

```

```

699: DO CASE

```

```

700: CASE m.object = "S"

```

```

701: SELECT dict

```

```

702: IF datatype = "N" .OR. datatype = "C"

```

```

703: SHOW GET m.val ENABLE

```

```

704: ELSE

```

```

705: SHOW GET m.val DISABLE

```

```

706: ENDIF

```

```

707: CASE m.object = "D"

```

```

708: SELECT disease

```

```

709: SHOW GET m.val ENABLE

```

```

710: END CASE

```

```

711: BROWSE NOEDIT

```

```

712: m.id = id

```

```

713: mobj = name

```

```

714: SELECT (msel)

```

```

715: SHOW GETS

```

```

716: *
717: *
718: *
719: *
720: *
721: *
722: *
723: *
724: *
725: *
726: *
727: *
728: *
729: *
730: *
731: *
732: *
733: *
734: *
735: *
736: *
737: *
738: *
739: *
740: *
741: *
742: *
743: *
744: *
745: *
746: *
747: *
748: *
749: *
750: *

```

```

716: mbuttons VALID

```

```

717: Function Origin:

```

```

718: From Platform:

```

```

719: From Screen:

```

```

720: Variable:

```

```

721: Called By:

```

```

722: Object Type:

```

```

723: Snippet Number:

```

```

724: *
725: *
726: *
727: *
728: *
729: *
730: *
731: *
732: *
733: *
734: *
735: *
736: *
737: *
738: *
739: *
740: *
741: *
742: *
743: *
744: *
745: *
746: *
747: *
748: *
749: *
750: *

```

```

716: MS-DOS

```

```

717: CLAUSE,

```

```

718: mbuttons

```

```

719: VALID Clause

```

```

720: Push Button

```

```

721: *
722: *
723: *
724: *
725: *
726: *
727: *
728: *
729: *
730: *
731: *
732: *
733: *
734: *
735: *
736: *
737: *
738: *
739: *
740: *
741: *
742: *
743: *
744: *
745: *
746: *
747: *
748: *
749: *
750: *

```

```

716: FUNCTION _qsf0kp5uc    && mbuttons VALID

```

```

717: #REGION 1

```

```

751: DO CASE
752: *case mbuttons = 1 && delete
753: * m.sure = yesno("Sure you want to delete?", "YES", "NO")
754: * IF m.sure
755: * delete
756: * pack
757: * ENDIF
758: * m.id = 0
759: * m.op = " "
760: * m.val = " "
761: * mok = .f.
762: CASE mbuttons = 1 && ok
763: mok = .t.
764: CASE mbuttons = 2 && cancel
765: mok = .f.
766: ENDCASE
767:
768:
769:
770:
771:
772:
773:
774:
775:
776: #REGION 1
777: FUNCTION insnewid
778: PARAMETER mdata, mitem
779: PRIVATE m.temp, m.search
780: m.temp = ALLTRIM(mdata)
781: m.search = .f.
782: DO WHILE !EMPTY(m.temp)
783: m.t1 = dp(m.temp, "1", 1)
784: m.temp = dp(m.temp, "1", 2, 999)
785: IF VAL(m.t1) = mitem
786: m.search = .t.
787: EXIT
788: ENDIF
789: ENDDO
790: IF !m.search
791: mdata = ALLTRIM(mdata) + IIF(EMPTY(mdata), "", "|") + ALLTRIM(STR(mi
792: => tem))
793: RETURN m.search
794: ENDIF
795:
796: FUNCTION setobject
797: PARAMETER m.object, mtype
798: IF "ACTION,DBF" $ DBF()
799: m.object = "Q"
800: mtype = "Goal"
801: ELSE
802: m.object = "S"
803: mtype = "Qualifier"
804: ENDIF
805: RETURN
806: * EOF: CLAUSE.ac1

```

CLAUSE/MS-DOS Supporting Procedures and Functions


```

1: *****
2: *****
3: * Procedure file: C:\CAMD2\KBEDIT\WORK\DP.PRG
4: * System: Knowledge Base Editor
5: * Author: Hoa L. Ly
6: * Copyright (c) June 1, 1994, Naval Health Research Center, Code 2
7: * Last modified: 03/15/93 at 9:30:48
8: *
9: * Set by: INSNEWID() (function in CLAUSE.SPR)
10: *
11: * Documented 15:01:02 FoxDoc versio
12: * n 3.00a
13: * *****
14: * *****
15: * Date: 08/04/92 10:01:15
16: * Program Name: DP.PRG
17: * Author's Name: Hoa Le Ly
18: *
19: * Copyright (c) 1992 Company Name: NHRC
20: * Department: Code 22
21: * San Diego, CA 92138 - 5122
22: * Description: This program emulate $PIECE of MUMPS function. Which
23: * return the
24: * the portion of string which is bounded by the characters in deli
25: * miter. If both
26: * expr and expr2 are present, the value returned includes all char
27: * actors from
28: * the expr1-1th occurrence of delimiter, up to but not including
29: * the expr2th
30: * occurrence of delimiter. If expr2 is not present. it is assumed
31: * to have the same
32: * value as expr. If expr1 is not present. Then its value is assu
33: * me to be 1
34: * SYNTAX: DP(string, delimiter[,expr1,expr2])
35: * PARAMETER: string: Character expression which character extract fro
36: *
37: * delimiter: Character to delimiter
38: * expr: start of number occurrence of delimiter
39: * expr2: number of occurrence delimiter
40: *
41: * eg: string = "last, first'age"
42: * ?dp(string,"'") ==> last, first
43: * ?dp(string,"' ",2) ==> last, first'age
44: * *****
45: *****
46: *****
47: *****
48: *****
49: *****
50: *****
51: *****
52: *****
53: *****
54: *****
55: *****
56: *****
57: *****
58: *****
59: *****
60: *****
61: *****
62: *****
63: *****
64: *****
65: *****
66: *****
67: *****
68: *****
69: *****
70: *****
71: *****
72: *****
73: *****
74: *****
75: *****
76: *****
77: *****
78: *****
79: *****
80: *****
81: *****
82: *****
83: *****
84: *****
85: *****
86: *****
87: *****
88: *****

```

```

54: CASE PARAMETER() = 4
55: IF TYPE("mp") != "N"
56: RETURN ""
57: ENDIF
58: IF TYPE("mp2") = "N"
59: mp2 = IIF(mp >= mp2, -1, mp2)
60: ELSE
61: mp2 = -1
62: ENDIF
63: ENDCASE
64: IF TYPE("ms") != "C"
65: ms = STR(ms)
66: ENDIF
67: moccurs = OCCURS(mm,ms)
68: mp=1&(ms' (mm)
69: mstr = IIF(mp = 1, ms, "")
70: RETURN mstr
71: ENDIF
72: mbegin = IIF(mp = 1, 1, (AT(mm,ms,(mp-1))+1))
73: IF mp2 = -1
74: mend = AT(mm,ms,mp) - 1
75: IF mbegin < 0
76: IF mbegin > 1
77: mend = LEN(ms)
78: ELSE
79: RETURN ""
80: ENDIF
81: ELSE
82: mend = AT(mm,ms,mp2) - 1
83: mend = IIF(mend<0,LEN(ms),mend)
84: ENDIF
85: mstr = SUBSTR(ms, mbegin, (mend - mbegin + 1))
86: RETURN mstr
87: * EOF: DP.act
88:

```

&& Return ms if

&& Return null if mp>1&

```

1: *****
=> *****
2: * Procedure file: C:\CAMD2\KBEDIT\WORK\RESTORE.PRG
3: *
4: * System: Knowledge Base Editor
5: * Author: Hoa L. Ly
6: * Copyright (c) June 1, 1994, Naval Health Research Center, Code 2
=> 2
7: * Last modified: 06/03/94 at 9:26:30
8: *
9: * Set by: KBMENU.MPR
10: *
11: * Calls: RESTORE.SPR
12: *
13: * Documented 15:01:02
=> n 3.00a
14: * *****
=> *****
15: * -----
=> -----
16: * Restore data files
17: * Programmer: HLL
18: * PROCEDURE restore
19: * -----
=> -----
20: PUBLIC mscreen
21: PRIVATE MESSAGE
22: SET TALK OFF
23: SAVE SCREEN TO mscreen
24: MESSAGE = "Restore Knowledge Base database"
25: SET TOPIC TO "RESTORE"
26: DO restore.spr WITH MESSAGE
27: RESTORE SCREEN FROM mscreen
28: <--- RETURN
29: * EOF: RESTORE.act

```

FoxDoc versio

RULE.AC1 10-3-94 3:01p

MS-DOS Window definitions

```

118: @ 4,750,1,500 EDIT m.explain ;
119:   SIZE 7,583,60,375,0,000 ;
120:   DEFAULT " " ;
121:   FONT "Terminal", 8 ;
122:   SCROLL
123: @ 14,500,1,500 EDIT m.note ;
124:   SIZE 7,333,60,125,0,000 ;
125:   DEFAULT " " ;
126:   FONT "Terminal", 8 ;
127:   SCROLL
128: IF NOT WVISIBLE("w_rule")
129:   ACTIVATE WINDOW w_rule
130: ENDIF
131:
132: READ CYCLE MODAL
133:
134: RELEASE WINDOW w_rule
135:
136: #REGION 0
137:
138: SET readborder &rborder
139:
140: IF m.talkstat = "ON"
141:   SET TALK ON
142: ENDIF
143:
144: IF m.compstat = "ON"
145:   SET COMPATIBLE ON
146: ENDIF
147:
148:
149:
150:
151:
152:
153:
154:
155:
156: #REGION 1
157: SELECT rule
158: SET FILTER TO
159:
160: CASE _DOS
161:
162: #REGION 0
163: REGIONAL m.curraarea, m.talkstat, m.compstat
164:
165: IF SET("TALK") = "ON"
166:   SET TALK OFF
167:   m.talkstat = "ON"
168: ELSE
169:   m.talkstat = "OFF"
170: ENDIF
171:
172: m.compstat = SET("COMPATIBLE")
173: SET COMPATIBLE FOXPLUS
174:
175:
176:
177:
178:
179:
180:
181:
182:
183:
184:
185:
186:
187:
188:
189:
190:
191:
192:
193:
194:
195:
196:
197:
198:
199:
200:
201:
202:
203:
204:
205:
206:
207:
208:
209:
210:
211:
212:
213:
214:
215:
216:
217:
218:
219:
220:
221:
222:
223:
224:
225:
226:
227:
228:
229:

```

SET FILTER TO

ENDCASE

291: *
292: *
293: *
294: *
295: *
296: *
297: *
298: *
299: *
300: *
301: *
302: *
303: *
304: *
305: *
306: *
307: *
308: *
309: *
310: *
311: *
312: *
313: *
314: *
315: *
316: *
317: *
318: *
319: *
320: *
321: *
322: *
323: *
324: *
325: *
326: *
327: *
328: *
329: *
330: *
331: *
332: *
333: *
334: *
335: *
336: *
337: *
338: *
339: *
340: *
341: *
342: *
343: *
344: *
345: *
346: *
347: *
348: *
349: *
350: *
351: *
352: *
353: *
354: *
355: *
356: *

_QSF0KP97Y

Function Origin:

From Platform: Windows

From Screen: RULE, Record Number: 6

Variable: mbuttons

Called By: VALID Clause

Object Type: Push Button

Snippet Number: 1

FUNCTION _qsf0kp97y && mbuttons VALID

#REGION 1

DO CASE

CASE mbuttons = 1 && ok

GATHER MEMVAR MEMO

CASE mbuttons = 2 && cancel

SCATTER MEMO MEMVAR

ENDCASE

_QSF0KPA3B

Function Origin:

From Platform: MS-DOS

From Screen: RULE, Record Number: 17

Variable: mbutton

Called By: VALID Clause

Object Type: Push Button

Snippet Number: 2

FUNCTION _qsf0kpa3b && mbutton VALID

#REGION 1

m.adding = .T.

m.oldrec = RECNO()

SET TOPIC TO "ADD"

SCATTER MEMO MEMVAR BLANK

m.area = area.area

GOTO BOTTOM

m.rule = rule + 1

m.order = SET("order")

SET ORDER TO salience

GOTO BOTTOM

m.salience = salience + 10

SET ORDER TO (m.order)

SET TOPIC TO "RULE"

SHOW GET mbutton disabled

ENDCASE

_QSF0KPA7J

mbuttons VALID

```

230: a 1,1 SAY "Rule";
231:   SIZE 1,4, 0
232: a 1,6 GET m_rule;
233:   SIZE 1,5;
234:   DEFAULT 0;
235:   DISABLE
236: a 1,15 SAY "Salience";
237:   SIZE 1,8, 0
238: a 1,24 GET m.salience;
239:   SIZE 1,4;
240:   DEFAULT " ";
241:   VALID m.salience >= 0 .AND. m.salience <= 10000
242: a 17,15 GET mbutton;
243:   PICTURE "@*VN \<Add";
244:   SIZE 1,8,1;
245:   DEFAULT 1;
246:   VALID _qsf0kpa3b()
247: a 17,25 GET mbuttons;
248:   PICTURE "@*HT \<Delete \<Ok \<Cancel";
249:   SIZE 1,9,1;
250:   DEFAULT 1;
251:   VALID _qsf0kpa7j()
252: a 3,1 SAY "Explanation";
253:   SIZE 1,11, 0
254: a 10,1 SAY "Note";
255:   SIZE 1,4, 0
256: a 4,1 EDIT m.explain;
257:   SIZE 6,72,0;
258:   DEFAULT " ";
259:   SCROLL
260: a 11,1 EDIT m.note;
261:   SIZE 6,72,0;
262:   DEFAULT " ";
263:   SCROLL
264:
265: [IF NOT WVISIBLE("w_rule")
266:   ACTIVATE WINDOW w_rule
267: ]
268: [ENDIF
269:
270: READ CYCLE MODAL
271:
272: RELEASE WINDOW w_rule
273:
274: #REGION 0
275: [IF m.talkstat = "ON"
276:   SET TALK ON
277: ]
278: [ENDIF
279: [IF m.compstat = "ON"
280:   SET COMPATIBLE ON
281: ]
282: [ENDIF
283:
284:
285:
286:
287:
288:
289:
290: #REGION 1
291: SELECT rule

```

Function Origin:

From Platform: MS-DOS
 From Screen: RULE, Record Number: 18
 Variable: mbuttons
 Called By: VALID Clause
 Object Type: Push Button
 Snippet Number: 3

```

357: *
358: *
359: *
360: *
361: *
362: *
363: *
364: *
365: *
366: *
367: *
368: *
369: FUNCTION _qsfoKpa7j    && mbuttons VALID
370: #REGION 1
371: DO CASE
372:   CASE mbuttons = 1  && delete
373:     m.del = yesno("sure You want delete?", "YES", "NO")
374:     IF m.del
375:       m.sel = SELECT()
376:       SET TOPIC TO "DELETE"
377:       SELECT premise
378:       DELETE FOR clause = m.premise
379:       PACK
380:       SELECT action
381:       DELETE FOR clause = m.action
382:       PACK
383:       SELECT rule
384:       DELETE
385:       PACK
386:       COUNT TO m.rules
387:       SELECT area
388:       REPLACE rules WITH m.rules
389:       SELECT (m.sel)
390:     ENDIF
391:   SCATTER MEMO MEMVAR
392:   SET TOPIC TO "RULE"
393:   CASE mbuttons = 2  && ok
394:     IF m.adding
395:       APPEND BLANK
396:       GATHER MEMVAR MEMO
397:       m.recno = RECNO()
398:       COUNT TO m.rules
399:       GOTO m.recno
400:       m.sel = SELECT()
401:       SELECT area
402:       REPLACE rules WITH m.rules
403:       SELECT (m.sel)
404:     ELSE
405:       GATHER MEMVAR MEMO
406:     ENDIF
407:   CASE mbuttons = 3  && cancel
408:     GOTO m.oldrec
409:   SCATTER MEMO MEMVAR
410: END CASE
411: *: EOF: RULE.ac1

```



```
118: IF NOT WVISIBLE("w_term")
119:   ACTIVATE WINDOW w_term
120: ENDIF
121:
122: READ CYCLE MODAL
123:
124: RELEASE WINDOW w_term
125:
126: #REGION 0
127: SET readborder &rborder
128:
129: IF m.talkstat = "ON"
130:   SET TALK ON
131: ENDIF
132: IF m.compstat = "ON"
133:   SET COMPATIBLE ON
134: ENDIF
135:
136:
137:
138:
139: => 1
140:
141:
142:
143:
144:
145:
146: #REGION 1
147: RETURN .I.
148:
149:
150:
151:
152:
153:
154: #REGION 0
155: REGIONAL m.currarea, m.talkstat, m.compstat
156:
157: IF SET("TALK") = "ON"
158:   SET TALK OFF
159:   m.talkstat = "ON"
160: ELSE
161:   m.talkstat = "OFF"
162: ENDIF
163: m.compstat = SET("COMPATIBLE")
164: SET COMPATIBLE FOXPLUS
165:
166:
167:
168:
169:
170:
171:
172: IF NOT WEXIST("w_term") ;
173:   OR UPPER(WTITLE("w_term")) == "w_term.pjx" ;
174:
175: OR UPPER(WTITLE("w_term")) == "w_term.scx" ;
176: OR UPPER(WTITLE("w_term")) == "w_term.mnx" ;
177: OR UPPER(WTITLE("w_term")) == "w_term.prg" ;
178: OR UPPER(WTITLE("w_term")) == "w_term.frx" ;
179: OR UPPER(WTITLE("w_term")) == "w_term.qpr" ;
180: DEFINE WINDOW w_term ;
181:   FROM INT((SROW()-19)/2), INT((SCOL()-76)/2) ;
182:   TO INT((SROW()-19)/2)+18, INT((SCOL()-76)/2)+75 ;
183:   TITLE "Term Editor" ;
184:   FLOAT ;
185:   CLOSE ;
186:   SHADOW ;
187:   NOMINIMIZE ;
188:   COLOR SCHEME 1
189: ENDIF
190:
191:
192:
193:
194:
195:
196:
197:
198:
199: #REGION 1
200: EXTERNAL ARRAY premr, premr, premo, triple
201: PRIVATE mselect, mok
202: mselect = SELECT()
203: SELECT premise
204: IF EOF()
205:   PRIVATE m.flag = .F.
206:   GOTO BOTTOM
207: m.clause = IIF(EOF(), 0, clause) + 1
208: m.flag = addfact()
209: IF m.flag
210:   PRIVATE m.sel
211:   m.sel = SELECT()
212:   SELECT rule
213:   REPLACE premise WITH m.clause
214:   SELECT (m.sel)
215: ENDIF
216:
217:
218:
219:
220:
221:
222:
223:
224:
225:
226:
227:
228:
229:
230:
231:
232:
233:
234:
235:
236:
237:
238:
239:
240:
241:
242:
243:
244:
245:
246:
247:
248:
249:
250:
251:
252:
253:
254:
255:
256:
257:
258:
259:
260:
261:
262:
263:
264:
265:
266:
267:
268:
269:
270:
271:
272:
273:
274:
275:
276:
277:
278:
279:
280:
281:
282:
283:
284:
285:
286:
287:
288:
289:
290:
291:
292:
293:
294:
295:
296:
297:
298:
299:
300:
301:
302:
303:
304:
305:
306:
307:
308:
309:
310:
311:
312:
313:
314:
315:
316:
317:
318:
319:
320:
321:
322:
323:
324:
325:
326:
327:
328:
329:
330:
331:
332:
333:
334:
335:
336:
337:
338:
339:
340:
341:
342:
343:
344:
345:
346:
347:
348:
349:
350:
351:
352:
353:
354:
355:
356:
357:
358:
359:
360:
361:
362:
363:
364:
365:
366:
367:
368:
369:
370:
371:
372:
373:
374:
375:
376:
377:
378:
379:
380:
381:
382:
383:
384:
385:
386:
387:
388:
389:
390:
391:
392:
393:
394:
395:
396:
397:
398:
399:
400:
401:
402:
403:
404:
405:
406:
407:
408:
409:
410:
411:
412:
413:
414:
415:
416:
417:
418:
419:
420:
421:
422:
423:
424:
425:
426:
427:
428:
429:
430:
431:
432:
433:
434:
435:
436:
437:
438:
439:
440:
441:
442:
443:
444:
445:
446:
447:
448:
449:
450:
451:
452:
453:
454:
455:
456:
457:
458:
459:
460:
461:
462:
463:
464:
465:
466:
467:
468:
469:
470:
471:
472:
473:
474:
475:
476:
477:
478:
479:
480:
481:
482:
483:
484:
485:
486:
487:
488:
489:
490:
491:
492:
493:
494:
495:
496:
497:
498:
499:
500:
501:
502:
503:
504:
505:
506:
507:
508:
509:
510:
511:
512:
513:
514:
515:
516:
517:
518:
519:
520:
521:
522:
523:
524:
525:
526:
527:
528:
529:
530:
531:
532:
533:
534:
535:
536:
537:
538:
539:
540:
541:
542:
543:
544:
545:
546:
547:
548:
549:
550:
551:
552:
553:
554:
555:
556:
557:
558:
559:
560:
561:
562:
563:
564:
565:
566:
567:
568:
569:
570:
571:
572:
573:
574:
575:
576:
577:
578:
579:
580:
581:
582:
583:
584:
585:
586:
587:
588:
589:
590:
591:
592:
593:
594:
595:
596:
597:
598:
599:
600:
601:
602:
603:
604:
605:
606:
607:
608:
609:
610:
611:
612:
613:
614:
615:
616:
617:
618:
619:
620:
621:
622:
623:
624:
625:
626:
627:
628:
629:
630:
631:
632:
633:
634:
635:
636:
637:
638:
639:
640:
641:
642:
643:
644:
645:
646:
647:
648:
649:
650:
651:
652:
653:
654:
655:
656:
657:
658:
659:
660:
661:
662:
663:
664:
665:
666:
667:
668:
669:
670:
671:
672:
673:
674:
675:
676:
677:
678:
679:
680:
681:
682:
683:
684:
685:
686:
687:
688:
689:
690:
691:
692:
693:
694:
695:
696:
697:
698:
699:
700:
701:
702:
703:
704:
705:
706:
707:
708:
709:
710:
711:
712:
713:
714:
715:
716:
717:
718:
719:
720:
721:
722:
723:
724:
725:
726:
727:
728:
729:
730:
731:
732:
733:
734:
735:
736:
737:
738:
739:
740:
741:
742:
743:
744:
745:
746:
747:
748:
749:
750:
751:
752:
753:
754:
755:
756:
757:
758:
759:
760:
761:
762:
763:
764:
765:
766:
767:
768:
769:
770:
771:
772:
773:
774:
775:
776:
777:
778:
779:
780:
781:
782:
783:
784:
785:
786:
787:
788:
789:
790:
791:
792:
793:
794:
795:
796:
797:
798:
799:
800:
801:
802:
803:
804:
805:
806:
807:
808:
809:
810:
811:
812:
813:
814:
815:
816:
817:
818:
819:
820:
821:
822:
823:
824:
825:
826:
827:
828:
829:
830:
831:
832:
833:
834:
835:
836:
837:
838:
839:
840:
841:
842:
843:
844:
845:
846:
847:
848:
849:
850:
851:
852:
853:
854:
855:
856:
857:
858:
859:
860:
861:
862:
863:
864:
865:
866:
867:
868:
869:
870:
871:
872:
873:
874:
875:
876:
877:
878:
879:
880:
881:
882:
883:
884:
885:
886:
887:
888:
889:
890:
891:
892:
893:
894:
895:
896:
897:
898:
899:
900:
901:
902:
903:
904:
905:
906:
907:
908:
909:
910:
911:
912:
913:
914:
915:
916:
917:
918:
919:
920:
921:
922:
923:
924:
925:
926:
927:
928:
929:
930:
931:
932:
933:
934:
935:
936:
937:
938:
939:
940:
941:
942:
943:
944:
945:
946:
947:
948:
949:
950:
951:
952:
953:
954:
955:
956:
957:
958:
959:
960:
961:
962:
963:
964:
965:
966:
967:
968:
969:
970:
971:
972:
973:
974:
975:
976:
977:
978:
979:
980:
981:
982:
983:
984:
985:
986:
987:
988:
989:
990:
991:
992:
993:
994:
995:
996:
997:
998:
999:
1000:
```



```

230: LEENDIF
231: @ 9,63 GET mbUTTONS ;
232: PICTURE "a*VT \<Delete;\<OK;\<Cancel\" ;
233: SIZE 1,8,1 ;
234: DEFAULT 1 ;
235: VALID qsfOkpcpm()
236: @ 3,63 GET mbutton ;
237: PICTURE "a*VN \<AND\" ;
238: SIZE 1,8,1 ;
239: DEFAULT 1 ;
240: VALID qsfOkpcpu9()
241: @ 5,63 GET morbutton ;
242: PICTURE "a*VN \<OR\" ;
243: SIZE 1,8,1 ;
244: DEFAULT 1 ;
245: VALID qsfOkpcwu()
246: @ 1,63 GET mebutton ;
247: PICTURE "a*VN \<Edit\" ;
248: SIZE 1,8,1 ;
249: DEFAULT 1 ;
250: WHEN mp > 0 ;
251: VALID qsfOkpczg()
252: @ 7,63 GET minsoutg ;
253: PICTURE "a*VN \<Insert\" ;
254: SIZE 1,8,1 ;
255: DEFAULT 1 ;
256: VALID qsfOkpdIz()
257: @ 0,1 GET _mp ;
258: PICTURE "a&n\" ;
259: FROM prem ;
260: SIZE 17,59 ;
261: DEFAULT 1 ;
262: VALID qsfOkpd51() ;
263: COLOR SCHEME 2
264:
265: [ IF NOT WVISIBLE("w_term")
266: ACTIVATE WINDOW w_term ]
267: ENDIF
268: READ CYCLE MODAL
269: RELEASE WINDOW w_term
270: #REGION 0
271: [ IF m.talkstat = "ON"
272: SET TALK ON ]
273: ENDF
274: [ IF m.compstat = "ON"
275: SET COMPATIBLE ON ]
276: ENDF
277: *
278: *
279: *
280: *
281: *
282: *
283: *
284: *
285: *
286: *
287: *
288: *
289: *
290: *

```

TERM/MS-DOS Cleanup Code

```

291: *
292: *
293: *
294: *
295: *
296: *
297: *
298: *
299: *
300: *
301: *
302: *
303: *
304: *
305: *
306: *
307: *
308: *
309: *
310: *
311: FUNCTION _qsfkpc3r    && mp VALID
312: #REGION 1
313: DO edprem
314: *
315: *
316: *
317: *
318: *
319: *
320: *
321: *
322: *
323: *
324: *
325: *
326: *
327: *
328: *
329: *
330: FUNCTION _qsfkpc6d    && mbuttons VALID
331: #REGION 1
332: DO CASE
333: CASE mbuttons = 1    && Edit
334: IF mp > 0
335: DO edprem
336: ENDIF
337: mok = .T.
338: CASE mbuttons = 2    && cancel
339: mok = .F.
340: CLEAR READ
341: *
342: *
343: *
344: *
345: *
346: *
347: *
348: *
349: *
350: *
351: *
352: *
353: *
354: *
355: *
356: *

```



```

489: *
490: #REGION 1
491: PROCEDURE edprem
492: EXTERNAL ARRAY prem, premr, triple
493: SET TOPIC TO "EDIT"
494: SELECT fact
495: K = premr[mp]
496: IF triple[k,2] > 0
497: SEEK triple[k,2]
498: ELSE
499: * empty fact list; add insert fact !!!
500: ENDF
501: m.clause = premise.fact
502: DO clause.spr
503: SELECT premise
504: DO setprem
505: SHOW GETS
506: mtopic = ALIAS()
507: SET TOPIC TO &mtopic
508: RETURN
509:
510:
511: FUNCTION setjoin
512: PARAMETERS joinop
513: IF mp > 0
514: K = VAL(premo[mp])
515: IF K > 0
516: triple[k,1] = joinop
517: IF triple[k,5] > 0
518: GOTO triple[k,5]
519: REPLACE premise.op WITH joinop
520: ENDF
521: ENDF
522: ENDF
523: DO setprem
524: SHOW GETS
525: RETURN joinop
526:
527:
528: FUNCTION lastfact
529: SELECT premise
530: IF EOF()
531: m.fact = 0
532: ELSE
533: m.fact = fact
534: ENDF
535: SELECT fact
536: RETURN m.fact
537:
538: FUNCTION addfact
539: PRIVATE m.sel, m.flag
540: m.sel = SELECT()
541: m.flag = .F.
542: SELECT fact
543: GOTO BOTTOM
544: m.fact = IIF(EOF(), 0, clause) + 1
545: DO clause.spr WITH m.fact
546: SEEK m.fact
547: IF FOUND()
548: SELECT premise
549: APPEND BLANK
550: REPLACE clause WITH m.clause
551: REPLACE fact WITH m.fact
552: m.flag = .T.
553: ENDF
554: SELECT (m.sel)

```

```

555: DO setprem
556: RETURN m.flag
557: *: EOF: TERM.ac1

```

```

1: *****
2: *****
3: * Procedure file: C:\CAMD2\KBEDIT\WORK\K8DELETE.PRG
4: * System: Knowledge Base Editor
5: * Author: Hoa L. Ly
6: * Copyright (c) June 1, 1994, Naval Health Research Center, Code 2
7: * Last modified: 07/27/94 at 10:47:58
8: *
9: * Set by: _QSFOKOEUC() (function in KBDEL.SPR)
10: * : _QSFOKOKPT() (function in KBDEL.SPR)
11: *
12: * Uses: FACT.DBF
13: * : PREMISE.DBF
14: * : ACTION.DBF
15: * : RULE.DBF
16: *
17: * Indexes: FACT.IDX
18: * : PREMISE.IDX
19: * : ACTION.IDX
20: * : RULEAREA.IDX
21: * : SALIENCE.IDX
22: * : RULE.IDX
23: *
24: * Documented 15:01:04 FoxDoc versio
25: * *****
26: * kbdelete.prg
27: *
28: * PARAMETERS m.name && name of knowledge base
29: *
30: * Removes rules and their associated premise, action clauses
31: * from the knowledge base.
32: *
33: * Lookup the name in the knowledge base file
34: * SELECT area &&
35: * LOCATE FOR LOWER(name) = LOWER(m.name) && lookup by name (case inse
36: * nsitive)
37: * IF !FOUND()
38: * * unknown knowledge base
39: * RETURN
40: * ENDIF
41: *
42: * open database
43: * SELECT 0
44: * USE fact INDEX fact
45: * SELECT 0
46: * USE premise INDEX premise
47: * SET RELATION TO fact INTO fact
48: * SELECT 0
49: * USE action INDEX action
50: * SELECT 0
51: * USE rule INDEX rulearea,salience,rule
52: * SET RELATION TO premise INTO premise, action INTO action
53: * SET RELATION TO area INTO rule
54: *
55: * delete rules and clauses in knowledge base
56: * SELECT rule &&
57: * SEEK area.area
58: * DO WHILE area = area.area .AND. !EOF()
59: * SELECT premise
60: * SEEK rule.premise
61: * DO WHILE clause = rule.premise

```

```

62: *
63: * IF EMPTY(premise.op)
64: * SELECT fact
65: * DELETE FOR clause = premise.fact && delete all premise cla
66: *
67: * ENDIF
68: * SELECT premise
69: * DELETE
70: * SKIP
71: * ENDDO
72: * SELECT action
73: * DELETE FOR clause = rule.action && delete all action clauses
74: * DELETE FOR clause = rule.else && delete all else clauses
75: * SELECT rule
76: * DELETE
77: * SKIP
78: * ENDDO
79: *
80: * delete goals and qualifiers in knowledge base
81: * SELECT goals
82: * DELETE FOR area = area.area
83: * PACK
84: * SELECT DISPLAY
85: * DELETE FOR area = area.area
86: * PACK
87: * SELECT quals
88: * DELETE FOR area = area.area
89: * PACK
90: *
91: * update premise database
92: * SELECT premise
93: * PACK
94: *
95: * update fact database
96: * SELECT fact
97: * PACK
98: *
99: * update action database
100: * SELECT action
101: * PACK
102: *
103: * update rulebase
104: * SELECT rule
105: * PACK
106: *
107: * update area database
108: * SELECT area
109: * *replace rules with 0
110: * PRIVATE m.recno
111: * m.recno = RECNO()
112: * DELETE
113: * PACK
114: * IF m.recno > RECCOUNT()
115: * GOTO BOTTOM
116: * ELSE
117: * GOTO m.recno
118: * ENDIF
119: *
120: * close unused database
121: * SELECT fact
122: * USE
123: * SELECT premise
124: * USE
125: * SELECT action
126: * USE
127: * SELECT rule
128: * USE

```

127: * finish up
128: * RETURN
129: *
130: *
131: *: EOF: KBDELETE.act

```

1:
2:
3:
4:
5:
6:
7:
8:
9:
10:
11:
12:
13:
14:
15:
16:
17:
18:
19:
20:
21:
22:
23:
24:
25:
26:
27:
28:
29:
30:
31:
32:
33:
34:
35:
36:
37:
38:
39:
40:
41:
42:
43:
44:
45:
46:
47:
48:
49:
50:
51:
52:
53:
54:
55:
56:
57:
58:
59:
60:
61:
62:
63:
64:
65:
66:
67:
68:
69:
70:
71:
72:
73:
74:
75:
76:
77:
78:
79:
80:
81:
82:
83:
84:
85:
86:
87:
88:
89:
90:
91:
92:
93:
94:
95:
96:
97:
98:
99:
100:
101:
102:
103:
104:
105:
106:
107:
108:
109:
110:
111:
112:
113:
114:
115:
116:
117:
118:
119:
120:
121:
122:
123:
124:
125:
126:
127:
128:
129:
130:
131:
132:
133:
134:
135:
136:
137:
138:
139:
140:
141:
142:
143:
144:
145:
146:
147:
148:
149:
150:
151:
152:
153:
154:
155:
156:
157:
158:
159:
160:
161:
162:
163:
164:
165:
166:
167:
168:
169:
170:
171:
172:
173:
174:
175:
176:
177:
178:
179:
180:
181:
182:
183:
184:
185:
186:
187:
188:
189:
190:
191:
192:
193:
194:
195:
196:
197:
198:
199:
200:
201:
202:
203:
204:
205:
206:
207:
208:
209:
210:
211:
212:
213:
214:
215:
216:
217:
218:
219:
220:
221:
222:
223:
224:
225:
226:
227:
228:
229:
230:
231:
232:
233:
234:
235:
236:
237:
238:
239:
240:
241:
242:
243:
244:
245:
246:
247:
248:
249:
250:
251:
252:
253:
254:
255:
256:
257:
258:
259:
260:
261:
262:
263:
264:
265:
266:
267:
268:
269:
270:
271:
272:
273:
274:
275:
276:
277:
278:
279:
280:
281:
282:
283:
284:
285:
286:
287:
288:
289:
290:
291:
292:
293:
294:
295:
296:
297:
298:
299:
300:
301:
302:
303:
304:
305:
306:
307:
308:
309:
310:
311:
312:
313:
314:
315:
316:
317:
318:
319:
320:
321:
322:
323:
324:
325:
326:
327:
328:
329:
330:
331:
332:
333:
334:
335:
336:
337:
338:
339:
340:
341:
342:
343:
344:
345:
346:
347:
348:
349:
350:
351:
352:
353:
354:
355:
356:
357:
358:
359:
360:
361:
362:
363:
364:
365:
366:
367:
368:
369:
370:
371:
372:
373:
374:
375:
376:
377:
378:
379:
380:
381:
382:
383:
384:
385:
386:
387:
388:
389:
390:
391:
392:
393:
394:
395:
396:
397:
398:
399:
400:
401:
402:
403:
404:
405:
406:
407:
408:
409:
410:
411:
412:
413:
414:
415:
416:
417:
418:
419:
420:
421:
422:
423:
424:
425:
426:
427:
428:
429:
430:
431:
432:
433:
434:
435:
436:
437:
438:
439:
440:
441:
442:
443:
444:
445:
446:
447:
448:
449:
450:
451:
452:
453:
454:
455:
456:
457:
458:
459:
460:
461:
462:
463:
464:
465:
466:
467:
468:
469:
470:
471:
472:
473:
474:
475:
476:
477:
478:
479:
480:
481:
482:
483:
484:
485:
486:
487:
488:
489:
490:
491:
492:
493:
494:
495:
496:
497:
498:
499:
500:
501:
502:
503:
504:
505:
506:
507:
508:
509:
510:
511:
512:
513:
514:
515:
516:
517:
518:
519:
520:
521:
522:
523:
524:
525:
526:
527:
528:
529:
530:
531:
532:
533:
534:
535:
536:
537:
538:
539:
540:
541:
542:
543:
544:
545:
546:
547:
548:
549:
550:
551:
552:
553:
554:
555:
556:
557:
558:
559:
560:
561:
562:
563:
564:
565:
566:
567:
568:
569:
570:
571:
572:
573:
574:
575:
576:
577:
578:
579:
580:
581:
582:
583:
584:
585:
586:
587:
588:
589:
590:
591:
592:
593:
594:
595:
596:
597:
598:
599:
600:
601:
602:
603:
604:
605:
606:
607:
608:
609:
610:
611:
612:
613:
614:
615:
616:
617:
618:
619:
620:
621:
622:
623:
624:
625:
626:
627:
628:
629:
630:
631:
632:
633:
634:
635:
636:
637:
638:
639:
640:
641:
642:
643:
644:
645:
646:
647:
648:
649:
650:
651:
652:
653:
654:
655:
656:
657:
658:
659:
660:
661:
662:
663:
664:
665:
666:
667:
668:
669:
670:
671:
672:
673:
674:
675:
676:
677:
678:
679:
680:
681:
682:
683:
684:
685:
686:
687:
688:
689:
690:
691:
692:
693:
694:
695:
696:
697:
698:
699:
700:
701:
702:
703:
704:
705:
706:
707:
708:
709:
710:
711:
712:
713:
714:
715:
716:
717:
718:
719:
720:
721:
722:
723:
724:
725:
726:
727:
728:
729:
730:
731:
732:
733:
734:
735:
736:
737:
738:
739:
740:
741:
742:
743:
744:
745:
746:
747:
748:
749:
750:
751:
752:
753:
754:
755:
756:
757:
758:
759:
760:
761:
762:
763:
764:
765:
766:
767:
768:
769:
770:
771:
772:
773:
774:
775:
776:
777:
778:
779:
780:
781:
782:
783:
784:
785:
786:
787:
788:
789:
790:
791:
792:
793:
794:
795:
796:
797:
798:
799:
800:
801:
802:
803:
804:
805:
806:
807:
808:
809:
810:
811:
812:
813:
814:
815:
816:
817:
818:
819:
820:
821:
822:
823:
824:
825:
826:
827:
828:
829:
830:
831:
832:
833:
834:
835:
836:
837:
838:
839:
840:
8
```

```

59: *
60: *
61: *
62: IF NOT WEXIST("object");
63: OR UPPER(WTITLE("OBJECT")) == "OBJECT.PJX";
64: OR UPPER(WTITLE("OBJECT")) == "OBJECT.SCX";
65: OR UPPER(WTITLE("OBJECT")) == "OBJECT.MNX";
66: OR UPPER(WTITLE("OBJECT")) == "OBJECT.PRG";
67: OR UPPER(WTITLE("OBJECT")) == "OBJECT.FRX";
68: OR UPPER(WTITLE("OBJECT")) == "OBJECT.QPR";
69: DEFINE WINDOW OBJECT ;
70: AT 0.000, 0.000 ;
71: SIZE 12.769,54.333 ;
72: TITLE "Add New Object" ;
73: FONT "MS Sans Serif", 8 ;
74: STYLE "B" ;
75: NOFLOAT ;
76: NOCLOSE ;
77: SHADOW ;
78: NOMINIMIZE ;
79: COLOR RGB(,128,128,0)
80: MOVE WINDOW OBJECT CENTER
81: ENDF
82: *
83: *
84: *
85: *
86: *
87: *
88: *
89: *
90: *
91: #REGION 1
92: IF WVISIBLE("object")
93: ACTIVATE WINDOW OBJECT SAME
94: ELSE
95: ACTIVATE WINDOW OBJECT NOSHOW
96: ENDF
97: @ 7.385,3.000 SAY "ID# : " ;
98: FONT "MS Sans Serif", 8 ;
99: STYLE "B"
100: @ 1.462,10.333 GET m.object ;
101: PICTURE "a*RHN Subject ;Disease" ;
102: SIZE 1.308,15.000,0.000 ;
103: DEFAULT 1 ;
104: FONT "MS Sans Serif", 8 ;
105: STYLE "B" ;
106: VALID qsf0kpf1()
107: @ 4.385,12.333 GET m.name ;
108: SIZE 1.154,38.000 ;
109: DEFAULT " " ;
110: FONT "MS Sans Serif", 8 ;
111: VALID qsf0kpfv8()
112: @ 7.385,10.500 GET m.id ;
113: SIZE 1.154,5.000 ;
114: DEFAULT 0 ;
115: FONT "MS Sans Serif", 8 ;
116: DISABLE
117:

```

```
118: @ 9.692,13.167 GET m.button ;
119: PICTURE "a*HT \OK;\<Cancel" ;
120: SIZE 1.692,9.833,1.000 ;
121: DEFAULT 1 ;
122: FONT "MS Sans Serif", 8 ;
123: STYLE "B" ;
124: VALID _qsf0kpg47()
125: @ 1.615,3.000 SAY "Type:" ;
126: FONT "MS Sans Serif", 8 ;
127: STYLE "B" ;
128: @ 4.231,3.000 GET m.obj ;
129: PICTURE "a*HN Object" ;
130: SIZE 1.769,8.000,1.000 ;
131: DEFAULT 1 ;
132: FONT "MS Sans Serif", 8 ;
133: STYLE "B" ;
134: VALID _qsf0kpg47()
135:
136: IF NOT WVISIBLE("object")
137:   ACTIVATE WINDOW OBJECT
138: ENDIF
```

```
139: READ CYCLE MODAL
140:
141: RELEASE WINDOW OBJECT
142:
143: #REGION 0
144: SET readborder &rborder
145:
146: IF m.talkstat = "ON"
147:   SET TALK ON
148: ENDIF
149:
150: IF m.compstat = "ON"
151:   SET COMPATIBLE ON
152: ENDIF
```

CASE _DOS

```
159: *
160: *
161: * OBJECT/MS-DOS Setup Code - SECTION 1
162: *
163: *
164: *
165: *
166: *
167: *
168: *
169: *
170: *
171: *
172: *
173: *
174: *
175: *
176: *
177: *
178: *
```

```
#REGION 1
IF PARAMETER() = 0
  m.status = "Q"
ENDIF
m.sel = SELECT()
SELECT dict
GOTO BOTTOM
m.id = id + 1
m.get = .f.
DIMENSION marray[1]
```

```
#REGION 0
REGIONAL m.currarea, m.talkstat, m.compstat
```

```
179: IF SET("TALK") = "ON"
180:   SET TALK OFF
181:   m.talkstat = "ON"
182: ELSE
183:   m.talkstat = "OFF"
184: ENDIF
185: m.compstat = SET("COMPATIBLE")
186: SET COMPATIBLE FOXPLUS
187:
188: *
189: *
190: *
191: * MS-DOS Window definitions
192: *
193: *
194: *
195: *
196: *
197: *
198: *
199: *
200: *
201: *
202: *
203: *
204: *
205: *
206: *
207: *
208: *
209: *
210: *
211: *
212: *
213: *
214: *
215: *
216: *
217: *
218: *
219: *
220: *
221: *
222: *
223: *
224: *
225: *
226: *
227: *
228: *
229: *
230: *
231: *
232: *
233: *
234: *
```

```
IF NOT WEXIST("object") ;
OR UPPER(WTITLE("OBJECT")) == "OBJECT.PJX" ;
OR UPPER(WTITLE("OBJECT")) == "OBJECT.SCX" ;
OR UPPER(WTITLE("OBJECT")) == "OBJECT.MNX" ;
OR UPPER(WTITLE("OBJECT")) == "OBJECT.PRG" ;
OR UPPER(WTITLE("OBJECT")) == "OBJECT.FRX" ;
OR UPPER(WTITLE("OBJECT")) == "OBJECT.QPR" ;
DEFINE WINDOW OBJECT ;
FROM INT((SROW()-11)/2),INT((SCOL()-54)/2) ;
TO INT((SROW()-11)/2)+10,INT((SCOL()-54)/2)+53 ;
TITLE "Add New Object" ;
NOFLOAT ;
NOCLOSE ;
SHADOW ;
NOMINIMIZE ;
COLOR SCHEME 1
ENDIF
```

OBJECT/MS-DOS Screen Layout

```
#REGION 1
IF WVISIBLE("object")
  ACTIVATE WINDOW OBJECT SAME
ELSE
  ACTIVATE WINDOW OBJECT NOSHOW
ENDIF
@ 6,1 SAY "ID# : " ;
SIZE 1,5,0
@ 2,8 GET m.object ;
PICTURE "a*RHN Subject ;Disease" ;
SIZE 1,16,0 ;
DEFAULT 1 ;
VALID _qsf0kpg47()
```

```

235: @ 4,10 GET m.name ;
236: SIZE 1,38 ;
237: DEFAULT " " ;
238: VALID _qsf0kpgsr()
239: @ 6,8 GET m.id ;
240: SIZE 1,5 ;
241: DEFAULT 0 ;
242: DISABLE
243: @ 8,19 GET m.button ;
244: PICTURE "a*HT \<Ok;\<Cancel" ;
245: SIZE 1,8,1 ;
246: DEFAULT 1 ;
247: VALID _qsf0kpgvz()
248: @ 2,1 SAY "Type:" ;
249: SIZE 1,5,0 ;
250: @ 4,1 GET m.obj ;
251: PICTURE "a*HN Object" ;
252: SIZE 1,8,1 ;
253: DEFAULT 1 ;
254: VALID _qsf0kph17()
255:
256: [IF NOT WISIBLE("object")
257:   ACTIVATE WINDOW OBJECT
258: ]ENDIF
259:
260: READ CYCLE MODAL
261:
262: RELEASE WINDOW OBJECT
263:
264: #REGION 0
265: [IF m.talkstat = "ON"
266:   SET TALK ON
267: ]ENDIF
268: [IF m.compstat = "ON"
269:   SET COMPATIBLE ON
270: ]ENDIF
271:
272: ENDCASE
273:
274:
275:
276:
277:
278:
279:
280:
281:
282:
283:
284:
285:
286:
287:
288:
289:
290:
291: FUNCTION _qsf0kpfvr1    && m.object VALID
292: #REGION 1
293: [IF m.object = 1
294:   SELECT dict
295:   SET ORDER TO 1
296:   GOTO BOTTOM
297:   m.id = id + 1
298: ]ELSE
299:   [IF m.object = 2
300:     SELECT disease

```

```

301: SET ORDER TO 1
302: GOTO BOTTOM
303: m.id = id + 1
304: ]ENDIF
305: SHOW GETS
306: ]ENDIF
307:
308: *
309: *
310: *
311: *
312: *
313: *
314: *
315: *
316: *
317: *
318: *
319: *
320: *
321: *
322: *
323: FUNCTION _qsf0kpfv8    && m.name VALID
324: #REGION 1
325: =getobj(m.name)
326:
327: *
328: *
329: *
330: *
331: *
332: *
333: *
334: *
335: *
336: *
337: *
338: *
339: *
340: *
341: *
342: FUNCTION _qsf0kpfyy    && m.button VALID
343: #REGION 1
344: [IF m.button = 1
345:   * SEEK m.id
346:   * IF I found()
347:     APPEND BLANK
348:     REPLACE id WITH m.id
349:     REPLACE name WITH m.name
350:     IF m.get
351:       = datainput()
352:     *
353:     *
354:     *
355:     *
356:     *
357:     *
358:     *
359:     *
360:     *
361:     *
362:     *
363:     *
364:     *
365:     *
366:     *

```

Function Origin:	m.name VALID
From Platform:	Windows
From Screen:	OBJECT,
Variable:	m.name
Called By:	VALID Clause
Object Type:	Field
Snippet Number:	2
Record Number:	4

Function Origin:	m.button VALID
From Platform:	Windows
From Screen:	OBJECT,
Variable:	m.button
Called By:	VALID Clause
Object Type:	Push Button
Snippet Number:	3
Record Number:	6

Function Origin:	m.object VALID
From Platform:	Windows
From Screen:	OBJECT,
Variable:	m.object
Called By:	VALID Clause
Object Type:	Radio Button
Snippet Number:	1
Record Number:	3

367: *
 368: *
 369: *
 370: *
 371: *
 372: *
 373: *
 374: *
 375: *
 376: *
 377: *
 378: *
 379: *
 380: *
 381: *
 382: *
 383: *
 384: *
 385: *
 386: *
 387: *
 388: *
 389: *
 390: *
 391: *
 392: *
 393: *
 394: *
 395: *
 396: *
 397: *
 398: *
 399: *
 400: *
 401: *
 402: *
 403: *
 404: *
 405: *
 406: *
 407: *
 408: *
 409: *
 410: *
 411: *
 412: *
 413: *
 414: *
 415: *
 416: *
 417: *
 418: *
 419: *
 420: *
 421: *
 422: *
 423: *
 424: *
 425: *
 426: *
 427: *
 428: *
 429: *
 430: *
 431: *
 432: *

_QSF0KPG47 m.obj VALID
 Function Origin:
 From Platform: Windows
 From Screen: OBJECT, Record Number: 8
 Variable: m.obj
 Called By: VALID Clause
 Object Type: Push Button
 Snippet Number: 4

FUNCTION _qsf0kpg47 && m.obj VALID

```

DO CASE
--CASE m.object = 1
  SELECT dict
--CASE m.object = 2
  SELECT disease
ENDCASE
=creatarray()
DO selitem
SHOW GETS

```

_QSF0KPG0J m.object VALID
 Function Origin:
 From Platform: MS-DOS
 From Screen: OBJECT, Record Number: 13
 Variable: m.object
 Called By: VALID Clause
 Object Type: Radio Button
 Snippet Number: 5

FUNCTION _qsf0kpg0j && m.object VALID

```

IF m.object = 1
  SELECT dict
  SET ORDER TO 1
  GOTO BOTTOM
  m.id = id + 1
ELSE
  IF m.object = 2
    SELECT disease
    SET ORDER TO 1
    GOTO BOTTOM
    m.id = id + 1
  ENDIF
ENDIF
SHOW GETS

```

_QSF0KPGSR m.name VALID
 Function Origin:

433: *
 434: *
 435: *
 436: *
 437: *
 438: *
 439: *
 440: *
 441: *
 442: *
 443: *
 444: *
 445: *
 446: *
 447: *
 448: *
 449: *
 450: *
 451: *
 452: *
 453: *
 454: *
 455: *
 456: *
 457: *
 458: *
 459: *
 460: *
 461: *
 462: *
 463: *
 464: *
 465: *
 466: *
 467: *
 468: *
 469: *
 470: *
 471: *
 472: *
 473: *
 474: *
 475: *
 476: *
 477: *
 478: *
 479: *
 480: *
 481: *
 482: *
 483: *
 484: *
 485: *
 486: *
 487: *
 488: *
 489: *
 490: *
 491: *
 492: *
 493: *
 494: *
 495: *
 496: *
 497: *
 498: *

From Platform: MS-DOS
 From Screen: OBJECT, Record Number: 14
 Variable: m.name
 Called By: VALID Clause
 Object Type: Field
 Snippet Number: 6

FUNCTION _qsf0kpgsr && m.name VALID

```

#REGION 1_
=getobj(m.name)

```

_QSF0KPGVZ m.button VALID
 Function Origin:
 From Platform: MS-DOS
 From Screen: OBJECT, Record Number: 16
 Variable: m.button
 Called By: VALID Clause
 Object Type: Push Button
 Snippet Number: 7

FUNCTION _qsf0kpgvz && m.button VALID

```

#REGION 1_
IF m.button = 1
  * SEEK m.id
  * IF Ifound()
  APPEND BLANK
  REPLACE id WITH m.id
  REPLACE name WITH m.name
  IF !m.get
    * = datainput()
    * ENDIF
  * ENDIF
--DO CASE
--CASE m.status = "q"
  SELECT quals
--CASE m.status = "g"
  SELECT goals
--ENDCASE
APPEND BLANK
REPLACE id WITH m.id
REPLACE OBJECT WITH IIF(m.object=1,"S","D")
REPLACE area WITH area.area
SELECT (m.sel)
ENDIF

```

_QSF0KPH17 m.obj VALID
 Function Origin:
 From Platform: MS-DOS
 From Screen: OBJECT, Record Number: 18
 Variable: m.obj
 Called By: VALID Clause
 Object Type: Push Button
 Snippet Number: 8

```

499: *
500: * FUNCTION _qsf0kph17    && m.obj VALID
501: #REGION 1
502: DO CASE
503: CASE m.object = 1
504: SELECT dict
505: CASE m.object = 2
506: SELECT disease
507: ENDCASE
508: =creatarray()
509: DO selitem
510: SHOW GETS
511:
512:
513:
514:
515:
516:
517:
518:
519:
520:
521:
522: #REGION 1
523: FUNCTION creatarray
524: IF RECCOUNT() > 0
525: DIMENSION marray[reccount()]
526: ELSE
527: DIMENSION marray[1]
528: ENDF
529: marray = ""
530: i = 0
531: IF m.status = "Q"
532: m.dbf = 'QUALS'
533: ELSE
534: m.dbf = 'GOALS'
535: ENDF
536: GOTO TOP
537: SCAN
538: IF EMPTY(SEEK(id,m.dbf))
539: i = i + 1
540: marray[i] = RIGHT(STR(id),5) + " " + TRIM(name)
541: ENDF
542: ENDCAN
543: IF i > 0
544: DECLARE marray[i] && resize marray
545: ELSE
546: DECLARE marray[1]
547: marray = ""
548: ENDF
549: RETURN
550:
551: FUNCTION datainput
552: m.get = .T.
553: DO CASE
554: CASE "DISEASE.DBF" $ DBF()
555: DO disease.spr
556: CASE "DICT.DBF" $ DBF()
557: DO dict.spr WITH m.id
558: ENDCASE
559: m.id = id
560: m.name = name
561: RETURN
562:
563:
564: *

```

OBJECT/MS-DOS Supporting Procedures and Functions

```

565: *
566: * Get the matching list of object
567: *
568:
569: FUNCTION getobj
570: PARAMETER m.name
571: PRIVATE m.file, mcom, msel, m.temp
572: mcom = SET("EXACT")
573: SET EXACT OFF
574: m.file = DBF()
575: msel = SELECT()
576: m.temp = m.name + ".%"
577:
578: SELECT id, name;
579: FROM (m.file);
580: INTO CURSOR t0000000;
581: WHERE UPPER(name) LIKE (UPPER(m.temp))
582: SELECT t0000000
583: =creatarray()
584: USE
585: SELECT (msel)
586: DO selitem
587: *delete file t0000000.dbf
588: SET EXACT &mcom
589: RETURN
590:
591:
592: FUNCTION selitem
593: m.item = ""
594: IF EMPTY(marray[1])
595: DO obl.st.spr WITH marray, m.item
596: IF m.item $ ""
597: m.name = ""
598: CUROBJ = OBJNUM(m.name)
599: SHOW GETS
600: RETURN
601: ENDF
602: IF EMPTY(m.item)
603: m.get = .T.
604: DO CASE
605: CASE "DISEASE.DBF" $ DBF()
606: DO disease.spr
607: CASE "DICT.DBF" $ DBF()
608: DO dict.spr WITH m.id
609: ENDCASE
610: m.id = id
611: m.name = name
612: ELSE
613: m.id = VAL(m.item)
614: m.name = TRIM(SUBSTR(m.item,7,LEN(m.item)))
615: ENDF
616:
617: *: EOF: OBJECT.ac1

```



```

123: IF m.talkstat = "ON"
124:   SET TALK ON
125: ENDIF
126: IF m.compstat = "ON"
127:   SET COMPATIBLE ON
128: ENDIF
129:
130:
131:
132:
133:
134:
135:
136:
137:
138:
139:
140:
141:
142:
143:
144:
145:
146:
=>
147:
=>
148:
=>
149:
=>
150:
=>
151:
152:
153:
154:
155:
156:
157:
158:
159:
160:
161:
162:
163:
164:
165:
166:
167:
168:
169:
170:
171:
172:
=>
173:
=>
174:
=>
175:
=>
176:
=>
177:
178:
CASE _DOS
REGION 0
REGIONAL m.curarea, m.talkstat, m.compstat
IF SET("TALK") = "ON"
SET TALK OFF
m.talkstat = "ON"
ELSE
m.talkstat = "OFF"
ENDIF
m.compstat = SET("COMPATIBLE")
SET COMPATIBLE FOXPLUS
*
*
*
*
*
*
MS-DOS Window definitions
*
*
*
*
*
*
IF NOT WEXIST("w_qenum");
OR UPPER(WTITLE("w_qenum")) == "w_qenum.pjx" ;
OR UPPER(WTITLE("w_qenum")) == "w_qenum.scx" ;
OR UPPER(WTITLE("w_qenum")) == "w_qenum.mnx" ;
OR UPPER(WTITLE("w_qenum")) == "w_qenum.prg" ;
OR UPPER(WTITLE("w_qenum")) == "w_qenum.frx" ;
OR UPPER(WTITLE("w_qenum")) == "w_qenum.qpr" ;
DEFINE WINDOW w_qenum ;
FROM INT((SROW()-6)/2),INT((SCOL()-71)/2) ;
TO INT((SROW()-6)/2)+5,INT((SCOL()-71)/2)+70 ;
TITLE "Enumerated Type Editor" ;
FLOAT ;
CLOSE ;
SHADOW ;
NOMINIMIZE ;
COLOR SCHEME 1
ENDIF
*
*
*
*
*
*
ENUM/MS-DOS Screen Layout
*
*
*
*
*
*

```

```

179:
180:
181:
182:
183:
184:
185:
186:
187:
188:
189:
190:
191:
192:
193:
194:
195:
196:
197:
198:
199:
200:
201:
202:
203:
204:
205:
206:
207:
208:
209:
210:
211:
212:
213:
214:
215:
216:
217:
218:
219:
220:
221:
222:
223:
224:
225:
226:
227:
228:
229:
230:
231:
232:
233:
234:
235:
236:
237:
238:
239:
240:
241:
242:
243:
244:
#REGION 1
IF WVISIBLE("w_qenum")
ACTIVATE WINDOW w_qenum SAME
ELSE
ACTIVATE WINDOW w_qenum NOSHOWN
ENDIF
@ 3,32 GET mbuttons ;
PICTURE "a*HT OK;Cancel" ;
SIZE 1,8,1 ;
DEFAULT 1 ;
VALID _qsfokpjyy()
@ 2,0 SAY "Ord" ;
SIZE 1,3,0 ;
@ 0,0 SAY "MuteX" ;
SIZE 1,5,0 ;
@ 2,6 GET enum.ord ;
SIZE 1,2 ;
DEFAULT " " ;
DISABLE
@ 0,6 GET enum.mutext ;
SIZE 1,1 ;
DEFAULT " " ;
VALID _qsfokpk3s()
@ 1,6 GET enum.enumerate ;
SIZE 1,63 ;
DEFAULT " " ;
PICTURE "a;" ;
@ 1,0 SAY "Enum" ;
SIZE 1,4,0 ;
@ 3,22 GET mbutton ;
PICTURE "a*VN Add" ;
SIZE 1,8,1 ;
DEFAULT 1 ;
VALID _qsfokpk8e()
IF NOT WVISIBLE("w_qenum")
ACTIVATE WINDOW w_qenum
ENDIF
READ CYCLE MODAL
RELEASE WINDOW w_qenum
#REGION 0
IF m.talkstat = "ON"
SET TALK ON
ENDIF
IF m.compstat = "ON"
SET COMPATIBLE ON
ENDIF
ENDCASE

```

_QSFOKPJAM	mbuttons VALID
Function Origin:	
From Platform:	Windows
From Screen:	ENUM,
Variable:	mbuttons
Called By:	VALID Clause
Object Type:	Push Button
	Record Number: 2

SHOW GETS

311: *
 312: *
 313: *
 314: *
 315: *
 316: *
 317: *
 318: *
 319: *
 320: *
 321: *
 322: *
 323: *
 324: *
 325: *
 326: *
 327: *
 328: *
 329: *
 330: *
 331: *
 332: *
 333: *
 334: *
 335: *
 336: *
 337: *
 338: *
 339: *
 340: *
 341: *
 342: *
 343: *
 344: *
 345: *
 346: *
 347: *
 348: *
 349: *
 350: *
 351: *
 352: *
 353: *
 354: *
 355: *
 356: *
 357: *
 358: *
 359: *
 360: *
 361: *
 362: *
 363: *
 364: *
 365: *
 366: *
 367: *
 368: *
 369: *
 370: *
 371: *
 372: *
 373: *
 374: *
 375: *
 376: *

_QSFOKPKJY
 Function Origin:
 From Platform: MS-DOS
 From Screen: ENUM,
 Variable: mbutton
 Called By: VALID Clause
 Object Type: Push Button
 Snippet Number: 4
 Record Number: 12

FUNCTION _qs0kpkjy && mbutton VALID
 #REGION 1
 DO CASE
 CASE mbutton = 1 && ok
 mok = .T.
 CASE mbutton = 2 && cancel
 mok = .F.
 ENDCASE

_QSFOKPK3S
 Function Origin:
 From Platform: MS-DOS
 From Screen: ENUM,
 Variable: enum.mutex
 Called By: VALID Clause
 Object Type: Field
 Snippet Number: 5
 Record Number: 16

FUNCTION _qs0kpk3s && enum.mutex VALID
 #REGION 1
 DO CASE
 CASE dict.datatype \$ "EL"
 RETURN mutex = ".-"
 CASE dict.datatype \$ "M"
 RETURN mutex \$ "-+"
 ENDCASE
 RETURN .F.

_QSFOKPK8E
 Function Origin:
 From Platform: MS-DOS
 From Screen: ENUM,
 Variable: mbutton
 Called By: VALID Clause
 Object Type: Push Button
 Snippet Number: 6
 Record Number: 19

Snippet Number: 1

245: *
 246: *
 247: *
 248: *
 249: *
 250: *
 251: *
 252: *
 253: *
 254: *
 255: *
 256: *
 257: *
 258: *
 259: *
 260: *
 261: *
 262: *
 263: *
 264: *
 265: *
 266: *
 267: *
 268: *
 269: *
 270: *
 271: *
 272: *
 273: *
 274: *
 275: *
 276: *
 277: *
 278: *
 279: *
 280: *
 281: *
 282: *
 283: *
 284: *
 285: *
 286: *
 287: *
 288: *
 289: *
 290: *
 291: *
 292: *
 293: *
 294: *
 295: *
 296: *
 297: *
 298: *
 299: *
 300: *
 301: *
 302: *
 303: *
 304: *
 305: *
 306: *
 307: *
 308: *
 309: *
 310: *

FUNCTION _qs0kpkjam && mbutton VALID
 DO CASE
 CASE mbutton = 1 && ok
 mok = .T.
 CASE mbutton = 2 && cancel
 mok = .F.
 ENDCASE

_QSFOKPKJF7
 Function Origin:
 From Platform: Windows
 From Screen: ENUM,
 Variable: enum.mutex
 Called By: VALID Clause
 Object Type: Field
 Snippet Number: 2
 Record Number: 6

FUNCTION _qs0kpkjf7 && enum.mutex VALID
 #REGION 1
 DO CASE
 CASE dict.datatype \$ "EL"
 RETURN mutex = ".-"
 CASE dict.datatype \$ "M"
 RETURN mutex \$ "-+"
 ENDCASE
 RETURN .F.

_QSFOKPKJK
 Function Origin:
 From Platform: Windows
 From Screen: ENUM,
 Variable: mbutton
 Called By: VALID Clause
 Object Type: Push Button
 Snippet Number: 3
 Record Number: 9

FUNCTION _qs0kpkjjk && mbutton VALID
 #REGION 1
 DO WHILE id = dict.id
 m.ord = ord
 SKIP
 ENDDO
 m.ord = m.ord + 1
 APPEND BLANK
 m.id = dict.id
 m.mutex = ".-"
 GATHER MENVAR
 _CURORBJ = OBJNUM(enum.mutex)

```
377: *
378: FUNCTION qsf0kpk8e    && mbutton VALID
379: #REGION 1-
380: m.ord = 0
381: DO WHILE id = dict.id
382:     m.ord = ord
383:     SKIP
384:     ENDDO
385:     m.ord = m.ord + 1
386:     APPEND BLANK
387:     m.id = dict.id
388:     m.mutex = " "
389:     GATHER MEMVAR
390:     CUROBJ = OBJNUM(enum.mutex)
391:     SHOW GETS
392: *: EOF: ENUM.ac1
```

1: 2: 3: 4: 5: 6: 7: 8: 9: 10: 11: 12: 13: 14: 15: 16: 17: 18: 19: 20: 21: 22: 23: 24: 25: 26: 27: 28: 29: 30: 31: 32: 33: 34: 35: 36: 37: 38: 39: 40: 41: 42: 43: 44: 45: 46: 47: 48: 49: 50: 51: 52: 53: 54: 55: 56: 57: 58: 59: 60:

[illegible]

2	111111
---	--------

```
*  
*  
* Windows Window definitions  
*  
*  
  
-IF NOT WEXIST("w_restore") ;  
    OR UPPER(WTITLE("W_RESTORE")) == "W_RESTORE.PJX"  
    OR UPPER(WTITLE("W_RESTORE")) == "W_RESTORE.SCX"  
    OR UPPER(WTITLE("W_RESTORE")) == "W_RESTORE.MNX"  
    OR UPPER(WTITLE("W_RESTORE")) == "W_RESTORE.PRQ"  
    OR UPPER(WTITLE("W_RESTORE")) == "W_RESTORE.FRX"  
    OR UPPER(WTITLE("W_RESTORE")) == "W_RESTORE.QPR"  
        DEFINE WINDOW w_restore ;  
            AT 0.000, 0.000 ;  
            SIZE 18.866,79.500 ;  
            FONT "MS Sans Serif", 8 ;  
            STYLE "B" ;  
            NOFLOAT ;  
            NOCLOSE ;  
            SHADOW ;  
            NOMINIMIZE ;  
            DOUBLE  
        MOVE WINDOW w_restore CENTER  
-ENDIF  
  
*  
*  
* RESTORE/Windows Setup Code - SECTION 2  
*  
*  
  
#REGION 1  
m.olddrive = SET("DEFAULT")  
m.prevdrive = m.olddrive  
m.oldpath = CURDIR()  
maxaction = 1  
  
DECLARE drivearray[1,1]  
ndrive = 1  
DO newdrivepop  
  
DECLARE patharray[1,1]  
npath = 1  
DO newpathpop  
  
DECLARE filearray[1,1]  
nmfiles = 1  
DO newfilepop  
  
*
```

Page 4 of 40


```

233: #REGION 0
234: REGIONAL m.currearea, m.talkstat, m.compstat
235:
236:
237:
238: IF SET("TALK") = "ON"
239: SET TALK OFF
240: m.talkstat = "ON"
241: ELSE
242: m.talkstat = "Off"
243: ENDIF
244: m.compstat = SET("COMPATIBLE")
245: SET COMPATIBLE FOXPLUS
246:
247: *
248: *
249: * MS-DOS Window definitions
250: *
251: *
252: *
253: *
254: *
255: *
256: *
257: *
258: *
259: *
260: *
261: *
262: *
263: *
264: *
265: *
266: *
267: *
268: *
269: *
270: *
271: *
272: *
273: *
274: *
275: *
276: *
277: *
278: *
279: *
280: *
281: *
282: *
283: *
284: *
285: *
286: *
287: *
288: *

```

```

OR UPPER(WTITLE("W_restore")) = "W_restore.PJX" ;
OR UPPER(WTITLE("W_restore")) = "W_restore.SCX" ;
OR UPPER(WTITLE("W_restore")) = "W_restore.MNX" ;
OR UPPER(WTITLE("W_restore")) = "W_restore.PRG" ;
OR UPPER(WTITLE("W_restore")) = "W_restore.FRX" ;
OR UPPER(WTITLE("W_restore")) = "W_restore.QPR" ;
DEFINE WINDOW W_restore ;
FROM INT((SROW()-18)/2), INT((SCOL()-61)/2) ;
TO INT((SROW()-18)/2)+17, INT((SCOL()-61)/2)+60 ;
NOFLOAT ;
NOCLOSE ;
SHADOW ;
NOMINIMIZE ;
DOUBLE ;
COLOR SCHEME 5
ENDIF

```

```

#REGION 1
m.olddrive = SET("DEFAULT")
m.prevdribe = m.olddrive
m.oldpath = CURDIR()
maction = 1
DECLARE drivearray[1,1]
mdrive = 1
DO newdrivepop

```

```

289: DECLARE patharray[1,1]
290: mpath = 1
291: DO newpathpop
292:
293: DECLARE filearray[1,1]
294: mfiles = 1
295: DO newfilepop
296:
297: *
298: *
299: *
300: * RESTORE/MS-DOS Screen Layout
301: *
302: *
303: *
304: *
305: *
306: *
307: *
308: *
309: *
310: *
311: *
312: *
313: *
314: *
315: *
316: *
317: *
318: *
319: *
320: *
321: *
322: *
323: *
324: *
325: *
326: *
327: *
328: *
329: *
330: *
331: *
332: *
333: *
334: *
335: *
336: *
337: *
338: *
339: *
340: *
341: *
342: *
343: *
344: *
345: *
346: *
347: *
348: *
349: *

```

```

#REGION 1
IF WVISIBLE("W_restore")
ACTIVATE WINDOW W_restore SAME
ELSE
ACTIVATE WINDOW W_restore NOSHOW
ENDIF
@ 2,40 GET mdrive ;
PICTURE "a";
FROM drivearray ;
SIZE 3,18 ;
DEFAULT 1 ;
WHEN _qsfofopny5( ) ;
VALID _qsfofopny5( ) ;
COLOR SCHEME 5, 6
@ 6,28 SAY "Directory:" ;
SIZE 1,10, 0
@ 0,0 SAY MESSAGE ;
SIZE 1,40
@ 5,40 GET mpath ;
PICTURE "a";
FROM patharray ;
SIZE 3,18 ;
DEFAULT 1 ;
VALID _qsfofopny5( ) ;
COLOR SCHEME 5, 6
@ 9,45 GET maction ;
PICTURE "a\VT \i\<Restore;\<Cancel" ;
SIZE 1,9,1 ;
DEFAULT 1 ;
VALID _qsfofopny5( ) ;
@ 2,1 GET mfile ;
PICTURE "a&n";
FROM filearray ;
SIZE 11,26 ;
DEFAULT 1 ;
VALID _qsfofopny5( ) ;
COLOR SCHEME 6
@ 14,19 GET mfname ;
SIZE 1,39 ;
DEFAULT " " ;
VALID _qsfofopny5( ) ;
@ 14,0 SAY "Restore file name: " ;
SIZE 1,19, 0
@ 3,28 SAY "From drive: " ;
SIZE 1,12, 0

```

```

350:      IF NOT WVISIBLE("w_restore")
351:      ACTIVATE WINDOW_w_restore
352:    ENDIF
353:
354:  READ CYCLE MODAL
355:
356:  RELEASE WINDOW_w_restore
357:
358:  #REGION 0
359:  IF m.talkstat = "ON"
360:    SET TALK ON
361:  ENDIF
362:  IF m.compstat = "ON"
363:    SET COMPATIBLE ON
364:  ENDIF
365:
366:
367:
368:
369: => |
370: => |
371: => |
372: => |
373: => |
374: |
375: |
376: |
377: |
378: |
379: |

```

441:
442:
443:
444:
445:
446:
447:
448:
449:
450:
451:
452:
453:
454:
455:
456:
457:
458:
459:
460:
461:
462:
463:
464:
465:
466:
467:
468:
469:
470:
471:
472:
473:
474:
475:

From Platform:	Windows	Record Number:	2
From Screen:	RESTORE,		
Variable:	mdrive		
Called By:	VALID Clause		
Object Type:	PopUp		
Snippet Number:	2		

```

*Switch to the selected drive
FUNCTION qsfokpms0    && mdrive VALID
#REGION 1_
PRIVATE newdrive,mready

*Convert the popup bar number into the matching drive name
m.m.newdrive = drivearray[mdrive]

IF UPPER(m.newdrive) $ "A:8:"
    mready = yesno("Please insert disk into drive " + m.newdrive, "re-
ancel")
ELSE
    mready = .T.
ENDIF
IF mready
*Go there and reset all the other popups to match
SET DEFAULT TO: (m.newdrive)
DO newpathpop
DO newfilepop
ELSE
    mdrive = m.prevedrive
    m.newdrive = drivearray[mdrive]
ENDIF
SHOW GETS

```

```

_qsf0KPMX1      mpbth VALID
Function Origin:
From Platform:   Windows
From Screen:     RESTORE,
Variable:         mpbth
Called By:        VALID clause
Object Type:      Popup
Snippet Number:   3

```

```
FUNCTION _qs_f0kpmxi    && mpath VALID
#REGION 1_
m.newdefault = pathstring()
SET DEFAULT TO (m.newdefault)
DO newpathpop
DO newfilepop
SHOW GETS
```

_QSFOKPN0J	maction VALID
Function Origin:	
From Platform:	Windows
From Screen:	RESTORE,
Variable:	maction

```

476: *
477: *      Called By:      VALID Clause
478: *      Object Type:    Push Button
479: *      Snippet Number: 4
480: *
481: *
482: *      FUNCTION _qsf0kpn0j      && maction VALID
483: *      #REGION 1_
484: *      DO CASE
485: *      CASE maction = 1
486: *      IF FILE(mfname)
487: *      DO pkunzip
488: *      ENDIF
489: *      OTHERWISE
490: *      ENDCASE
491: *
492: *
493: *
494: *
495: *
496: *
497: *
498: *
499: *
500: *
501: *
502: *
503: *
504: *
505: *
506: *
507: *      FUNCTION _qsf0kpn3t      && mfile VALID
508: *      #REGION 1_
509: *      mnewfile = filearray[mfile,1]
510: *      IF " " $ mnewfile
511: *      mnewpath = SUBSTR(mnewfile,2,LEN(mnewfile)-2)
512: *      SET DEFA TO (mnewpath)
513: *      DO newpathpop
514: *      DO newfilepop
515: *      SHOW GETS
516: *      ELSE
517: *      mfname = mnewfile
518: *      SHOW GETS
519: *      ENDIF
520: *
521: *
522: *
523: *
524: *
525: *
526: *
527: *
528: *
529: *
530: *
531: *
532: *
533: *
534: *
535: *
536: *      FUNCTION _qsf0kpn7e      && mfname VALID
537: *      #REGION 1_
538: *      IF EMPTY(mfname)
539: *      IF IFILE(mfname)
540: *      mfname = ""
541: *      ENDIF

```

```

542: *
543: *
544: *
545: *
546: *
547: *
548: *
549: *
550: *
551: *
552: *
553: *
554: *
555: *
556: *
557: *
558: *
559: *      FUNCTION _qsf0kpn5      && mdrive WHEN
560: *      #REGION 1_
561: *      m.prevdribe = mdrive
562: *
563: *
564: *
565: *
566: *
567: *
568: *
569: *
570: *
571: *
572: *
573: *
574: *
575: *
576: *
577: *
578: *
579: *
580: *
581: *
582: *
583: *
584: *
585: *
586: *
587: *
588: *
589: *
590: *
591: *
592: *
593: *
594: *
595: *
596: *
597: *
598: *
599: *
600: *
601: *
602: *
603: *
604: *
605: *
606: *

```

```

ENDIF

```

```

_QSF0KPNV5

```

```

Function Origin:

```

```

From Platform:      MS-DOS
From Screen:        RESTORE,
Variable:            mdrive
Called By:           WHEN Clause
Object Type:         Popup
Snippet Number:      7

```

```

Record Number: 14

```

```

_QSF0KPO0A

```

```

Function Origin:

```

```

From Platform:      MS-DOS
From Screen:        RESTORE,
Variable:            mdrive
Called By:           VALID Clause
Object Type:         Popup
Snippet Number:      8

```

```

Record Number: 14

```

```

*Switch to the selected drive

```

```

FUNCTION _qsf0kpo0a      && mdrive VALID

```

```

#REGION 1_

```

```

PRIVATE newdrive,mready

```

```

*Convert the popup bar number into the matching drive name

```

```

m.newdrive = drivearray[mdrive]

```

```

IF UPPER(m.newdrive) $ "A:B:"

```

```

mready = yesno("Please insert disk into drive " + m.newdrive, "rea

```

```

=>dy", "cancel")

```

```

ELSE

```

```

mready = .T.

```

```

ENDIF

```

```

IF mready

```

```

*Go there and reset all the other popups to match

```

```

SET DEFAULT TO (m.newdrive)

```

```

DO newpathpop

```

```

DO newfilepop

```

```

ELSE

```

```

mdrive = m.prevdribe

```

```

m.newdrive = drivearray[mdrive]

```

```

ENDIF

```

```

SHOW GETS

```

```

600: *
601: *
602: *
603: *
604: *
605: *
606: *

```

```

_QSF0KPO5T

```

```

Function Origin:

```

```

mpath VALID

```

```

607: *
608: * From Platform: MS-DOS
609: * From Screen: RESTORE, Record Number: 17
610: * Variable: mpath
611: * Called By: VALID Clause
612: * Object Type: Popup
613: * Snippet Number: 9
614: *
615: *
616: *
617: FUNCTION _qsf0kpo5t && mpath VALID
618: #REGION 1
619: m.newdefault = pathstring()
620: SET DEFAULT TO (m.newdefault)
621: DO newpathpop
622: DO newfilepop
623: SHOW GETS
624: *
625: *
626: *
627: *
628: *
629: *
630: *
631: *
632: *
633: *
634: *
635: *
636: *
637: *
638: *
639: *
640: FUNCTION _qsf0kpo8t && maction VALID
641: #REGION 1
642: DO CASE
643: CASE maction = 1
644: IF FILE(mfname)
645: DO pkunzip
646: ENDIF
647: OTHERWISE
648:
649:
650: *
651: *
652: *
653: *
654: *
655: *
656: *
657: *
658: *
659: *
660: *
661: *
662: *
663: *
664: *
665: FUNCTION _qsf0kpoby && mfile VALID
666: #REGION 1
667: mnewfile = filearray[mfile,1]
668: IF "!" $ mnewfile
669: mnewpath = SUBSTR(mnewfile,2,LEN(mnewfile)-2)
670: SET DEFA TO (mnewpath)
671: DO newpathpop
672: DO newfilepop

```

```

673: *
674: *
675: *
676: *
677: *
678: *
679: *
680: *
681: *
682: *
683: *
684: *
685: *
686: *
687: *
688: *
689: *
690: *
691: *
692: *
693: *
694: *
695: *
696: *
697: *
698: *
699: *
700: *
701: *
702: *
703: *
704: *
705: *
706: *
707: *
708: *
709: *
710: *
711: *
712: *
713: *
714: *
715: *
716: *
717: *
718: *
719: *
720: *
721: *
722: *
723: *
724: *
725: *
726: *
727: *
728: *
729: *
730: *
731: *
732: *
733: *
734: *
735: *
736: *
737: *
738: *

```

```

ELSE
SHOW GETS
mfname = mnewfile
SHOW GETS
ENDIF

```

Function Origin: mfname VALID

From Platform: MS-DOS
From Screen: RESTORE,
Variable: mfname
Called By: VALID Clause
Object Type: Field
Snippet Number: 12

```

FUNCTION _qsf0kpo5t && mfname VALID
#REGION 1
IF EMPTY(mfname)
IF !FILE(mfname)
mfname = ""
ENDIF
ENDIF

```

RESTORE/MS-DOS Supporting Procedures and Functions

RESTORE Procedure NEWDRIVEPOP

```

PROCEDURE newdrivepop
DO CASE
CASE DOS
*****
* Create a popup with each of the legal drive names
* The popup will be based on an array of the drive names
PRIVATE olddefault, olderror, drivearray, ERROR
* We will change drives, so remember where we started
m.olddefault = SET("DEFAULT")
* To test for legal drives this program SET DEFAULT TO each drive
* If no error occurs the drive name will be added to an array
* Create the error trap
m.olderror = ON("ERROR")
m.error = .F.
ON ERROR m.error = .T.

```

```

739: * Create the array of legal drive names
740: DECLARE drivearray[ 1 ] = "A"
741: drivearray[ 1 ] = ""
742:
743: * Loop from A to Z
744: m.driveName = "A"
745: FOR i = 1 TO 26
746:
747:   * Try to switch to the drive
748:   SET DEFAULT TO (m.driveName)
749:
750:   * If it worked
751:   IF NOT m.error
752:
753:     * Add the name to the last element in the array
754:     drivearray[ ALLEN( DriveArray ) ] = m.driveName + ":"
755:
756:     * Add another element at the end of the array
757:     DECLARE drivearray[ ALLEN( DriveArray ) + 1 ]
758:
759:   ENDIF
760:
761:   * Change to the next letter in the alphabet
762:   m.driveName = CHR( ASC( m.driveName ) + 1 )
763:
764:   * Reset the error trap
765:   m.error = .F.
766: NEXT
767:
768: * If the first element is empty, no drives were found
769: IF EMPTY( drivearray[ 1 ] )
770:   SHOW GET m.drive disabled
771: ELSE
772:   * Drives were found so cut off the last empty element
773:   * added to the array in the loop
774:   DECLARE drivearray[ ALLEN( DriveArray ) - 1 ]
775: ENDIF
776:
777: * Reset the error trap and return to home
778: ON ERROR &olderror
779: SET DEFAULT TO (m.olddefault)
780:
781: * Initialize the popup variable to the element in the
782: * drive array which contains the current drive
783: mdrive = ASCAN( drivearray, m.olddefault )
784: RETURN
785:
786: *****
787: -CASE WINDOWS
788: *****
789: * Create a popup with each of the legal drive names
790: * The popup will be based on an array of the drive names
791: PRIVATE olddefault, olderror, driveName, ERROR
792:
793: * We will change drives, so remember where we started
794: m.olddefault = SET( "DEFAULT" )
795:
796: * To test for legal drives this program SET DEFAULT TO each drive
797: * If no error occurs the drive name will be added to an array
798:
799: * Create the error trap
800: m.olderror = ON( "ERROR" )
801: m.error = .F.
802: ON ERROR m.error = .T.
803:
804: * Create the array of legal drive names

```

```

805: DECLARE drivearray[ 3 ]
806: drivearray[ 1 ] = "A"
807: drivearray[ 2 ] = "B"
808: drivearray[ 3 ] = ""
809:
810: * Loop from A to Z
811: m.driveName = "A"
812: FOR i = 3 TO 26
813:
814:   * Try to switch to the drive
815:   SET DEFAULT TO (m.driveName)
816:
817:   * If it worked
818:   IF NOT m.error
819:
820:     * Add the name to the last element in the array
821:     drivearray[ ALLEN( DriveArray ) ] = m.driveName + ":"
822:
823:     * Add another element at the end of the array
824:     DECLARE drivearray[ ALLEN( DriveArray ) + 1 ]
825:
826:   ENDIF
827:
828:   * Change to the next letter in the alphabet
829:   m.driveName = CHR( ASC( m.driveName ) + 1 )
830:
831:   * Reset the error trap
832:   m.error = .F.
833: NEXT
834:
835: * If the first element is empty, no drives were found
836: IF EMPTY( drivearray[ 1 ] )
837:   SHOW GET m.drive disabled
838: ELSE
839:   * Drives were found so cut off the last empty element
840:   * added to the array in the loop
841:   DECLARE drivearray[ ALLEN( DriveArray ) - 1 ]
842: ENDIF
843:
844: * Reset the error trap and return to home
845: ON ERROR &olderror
846: SET DEFAULT TO (m.olddefault)
847:
848: * Initialize the popup variable to the element in the
849: * drive array which contains the current drive
850: mdrive = ASCAN( drivearray, m.olddefault )
851: RETURN
852:
853: *****
854: -ENDCASE
855:
856: *
857: *
858: *
859: *
860: *
861:
862:
863:
864:
865:
866:
867:
868:
869:
870:

```

RESTORE Procedure NEWPATHPOP

```

PROCEDURE newpathpop
DO CASE
CASE DOS
*****
* Create a popup with one bar for each subdirectory
* in the current path
PRIVATE dirstring, dircount

```

```

871: * Base the popup on an array with one element for
872: * each subdirectory in the current path
873:
874: * Start the array with the current drive
875: DECLARE patharray[ 1 ]
876: patharray[ 1 ] = SET( "DEFAULT" )
877:
878: * Get the current path string
879: m.dirstring = CURDIR()
880:
881: * If we are not in the root directory
882: IF LEN( m.dirstring ) > 1
883:
884: * Start parsing the path string for each directory name
885: m.dircount = 1
886:
887: * Continue as long as there is a pair of slashes
888: * Surrounding the next part of the string
889: DO WHILE AT( "\", m.dirstring, m.dircount ) <> 0 AND ;
890:   AT( "\", m.dirstring, m.dircount + 1 ) <> 0 ;
891:
892: * Add another element at the end of the array
893: DECLARE patharray[ m.dircount + 1 ]
894:
895: * Cut out the next set of characters between the slashes
896: m.firstchar = AT( "\", m.dirstring, m.dircount ) + 1
897:
898: m.pathlength = AT( "\", m.dirstring, m.dircount + 1 ) ;
899:   - m.firstchar
900:
901: * And add them to the next array element
902: patharray[ m.dircount + 1 ] = SUBSTR( m.dirstring, ;
903:   m.firstchar, m.pathlength )
904:
905: * Look for the next directory name in the path string
906: m.dircount = m.dircount + 1
907:
908: ENDDO
909:
910: * Point the popup variable at the last element in the array
911: mpath = ALEN( patharray )
912: RETURN
913:
914: *****
915:
916: CASE WINDOWS
917: *****
918: * Create a popup with one bar for each subdirectory
919: * in the current path
920: PRIVATE dirstring, dircount
921:
922: * Base the popup on an array with one element for
923: * each subdirectory in the current path
924:
925: * Start the array with the current drive
926: DECLARE patharray[ 1 ]
927: patharray[ 1 ] = SET( "DEFAULT" )
928:
929: * Get the current path string
930: m.dirstring = CURDIR()
931:
932: * If we are not in the root directory
933: IF LEN( m.dirstring ) > 1
934:
935: * Start parsing the path string for each directory name
936:
937: m.dircount = 1
938:
939: * Continue as long as there is a pair of slashes
940: * Surrounding the next part of the string
941: DO WHILE AT( "\", m.dirstring, m.dircount ) <> 0 AND ;
942:   AT( "\", m.dirstring, m.dircount + 1 ) <> 0 ;
943:
944: * Add another element at the end of the array
945: DECLARE patharray[ m.dircount + 1 ]
946:
947: * Cut out the next set of characters between the slashes
948: m.firstchar = AT( "\", m.dirstring, m.dircount ) + 1
949:
950: m.pathlength = AT( "\", m.dirstring, m.dircount + 1 ) ;
951:   - m.firstchar
952:
953: * And add them to the next array element
954: patharray[ m.dircount + 1 ] = SUBSTR( m.dirstring, ;
955:   m.firstchar, m.pathlength )
956:
957: * Look for the next directory name in the path string
958: m.dircount = m.dircount + 1
959:
960: ENDDO
961:
962: * Point the popup variable at the last element in the array
963: mpath = ALEN( patharray )
964: RETURN
965:
966: *****
967:
968: RESTORE Procedure NEWFILEPOP
969:
970: *
971: *
972: *
973: *
974: *
975: *
976:
977: PROCEDURE newfilepop
978: DO CASE
979: CASE DOS
980: *****
981:
982: * Create a popup with all of the file names and its subdirection i
983: the current directory
984: * This will be based on an array as well
985:
986: * Create an array with all the files matching the current wild car
987:
988: * ADIR() creates an array with 5 columns.
989:
990: PRIVATE startsort
991: * Fill an array with directory names only
992: =ADIR( dirarray, "", "d")
993: SIZE = ALEN( dirarray, 1 )
994: IF dirarray[ 1, 1 ] = "."
995:   =ADEL( dirarray, 1 )
996:   SIZE = SIZE - 1
997: DECLARE dirarray[ size, 5 ]
998: ELSE
999:   * We must be in the root directory "\"
1000:   * Add one more row to the directory array
1001:   SIZE = SIZE + 1

```

```

1001: DECLARE dirarray[ SIZE, 5 ]
1002:
1003: * Push all the rows down by one
1004: =AINS( dirarray, 1 )
1005:
1006: * Fill in the first directory name in the array
1007: * a bug in the popups makes it refuse to display a
1008: * prompt of "\", use "\\\" to make one \ appear
1009: * even then the bar will automatically be non-selectable
1010: * which in this case is fine
1011: dirarray[ 1, 1 ] = "\\\"
1012:
1013: * Start the sort after the root name
1014: ENDIF
1015:
1016: IF ALEN( dirarray, 1 ) > 2
1017:
1018: * Sort the array starting at the starting row
1019: =ASORT( dirarray, AELEMENT( dirarray, 2, 1 ) )
1020: ENDIF
1021:
1022: FOR i = 1 TO ALEN( dirarray, 1 )
1023:   dirarray[ i, 1 ] = "[" + dirarray[ i, 1 ] + "]"
1024: ENDFOR
1025:
1026: IF ADIR( filearray, m.wildcard ) = 0
1027:   SIZE = ALEN( dirarray, 1 )
1028:   DECLARE filearray[ size, 5 ]
1029:   =ACOPY( dirarray, filearray )
1030: ELSE
1031:   stop = ALEN( dirarray, 1 )
1032:   FOR i = 1 TO stop
1033:     SIZE = ALEN( filearray, 1 )
1034:     DECLARE filearray[ size + 1, 5 ]
1035:     =AINS( filearray, 1 )
1036:     filearray[ 1, 1 ] = dirarray[ alen( dirarray, 1 ), 1 ]
1037:     IF ALEN( dirarray, 1 ) > 1
1038:       DECLARE dirarray[ alen( dirarray, 1 ) - 1, 5 ]
1039:     ENDIF
1040:   ENDFOR
1041:   mfile = 1
1042:   RETURN
1043:
1044: *****
1045: CASE WINDOWS
1046: *****
1047:
1048: * Create a popup with all of the file names and its subdirection i
1049: the current directory
1050: * This will be based on an array as well
1051:
1052: * Create an array with all the files matching the current wild car
1053:
1054: * ADIR() creates an array with 5 columns.
1055:
1056: PRIVATE startsort
1057: * Fill an array with directory names only
1058: =ADIR( dirarray, "", "d")
1059: SIZE = ALEN( dirarray, 1 )
1060: IF dirarray[ 1, 1 ] = "."
1061:   =ADEL( dirarray, 1 )
1062:   SIZE = SIZE - 1
1063: ELSE
1064:   DECLARE dirarray[ size, 5 ]
1065:   * We must be in the root directory "\\"
1066:   * Add one more row to the directory array

```

RESTORE.AC1 10-3-94 3:01p

```

1065:
1066: SIZE = SIZE + 1
1067: DECLARE dirarray[ SIZE, 5 ]
1068:
1069: * Push all the rows down by one
1070: =AINS( dirarray, 1 )
1071:
1072: * Fill in the first directory name in the array
1073: * a bug in the popups makes it refuse to display a
1074: * prompt of "\", use "\\\" to make one \ appear
1075: * even then the bar will automatically be non-selectable
1076: * which in this case is fine
1077: dirarray[ 1, 1 ] = "\\\"
1078:
1079: * Start the sort after the root name
1080: ENDIF
1081:
1082: IF ALEN( dirarray, 1 ) > 2
1083:
1084: * Sort the array starting at the starting row
1085: =ASORT( dirarray, AELEMENT( dirarray, 2, 1 ) )
1086: ENDIF
1087:
1088: FOR i = 1 TO ALEN( dirarray, 1 )
1089:   dirarray[ i, 1 ] = "[" + dirarray[ i, 1 ] + "]"
1090: ENDFOR
1091:
1092: IF ADIR( filearray, m.wildcard ) = 0
1093:   SIZE = ALEN( dirarray, 1 )
1094:   DECLARE filearray[ size, 5 ]
1095:   =ACOPY( dirarray, filearray )
1096: ELSE
1097:   stop = ALEN( dirarray, 1 )
1098:   FOR i = 1 TO stop
1099:     SIZE = ALEN( filearray, 1 )
1100:     DECLARE filearray[ size + 1, 5 ]
1101:     =AINS( filearray, 1 )
1102:     filearray[ 1, 1 ] = dirarray[ alen( dirarray, 1 ), 1 ]
1103:     IF ALEN( dirarray, 1 ) > 1
1104:       DECLARE dirarray[ alen( dirarray, 1 ) - 1, 5 ]
1105:     ENDIF
1106:   ENDFOR
1107:   mfile = 1
1108:   RETURN
1109:
1110: *****
1111: CASE DOS
1112: *****
1113:
1114: * Convert an array of subdirectories, such as PathArray,
1115: * into a legal path string for use with SET DEFAULT
1116: * Use the current value of the path popup as the
1117: * ending point on the path
1118: PRIVATE ppath
1119:
1120: * Start with the drive name
1121:
1122: PROCEDURE pathstring
1123: DO CASE
1124: CASE DOS
1125: *****
1126: * Convert an array of subdirectories, such as PathArray,
1127: * into a legal path string for use with SET DEFAULT
1128: * Use the current value of the path popup as the
1129: * ending point on the path
1130: PRIVATE ppath
1131:
1132: * Start with the drive name

```

RESTORE Function PATHSTRING

Page 9 of 10

```

1197: m.path = patharray[ 1 ]
1198: * If the path popup is pointing to a subdirectory
1199: IF mpath > 1
1200: * Add all the subdirectories to the path string
1201: FOR i = 2 TO mpath
1202: m.ppath = m.ppath + "\" + patharray[ i ]
1203: NEXT i
1204: ENDIF
1205: * End the path with one last slash for good luck
1206: m.ppath = m.ppath + "\"
1207: RETURN m.ppath
1208: *****
1209: CASE WINDOWS
1210: *****
1211: PRIVATE CURDIR, datadir, msel
1212: CURDIR = FULLPATH(CURDIR())
1213: IF EMPTY(GETENV("KBDATA"))
1214: datadir = FULLPATH(GETENV("KBDATA"))
1215: ELSE
1216: datadir = CURDIR()
1217: ENDIF
1218: desdir = pathstring() + mfname
1219: SET DEFA TO (datadir)
1220: IF EMPTY(GETENV("CAMDOUTIL"))
1221: pkzipcom = "i" + GETENV("CAMDOUTIL") + "\"PKUNZIP -O &desdir *.dbf *.cdx *.idx *.fpt"
1222: ELSE
1223: pkzipcom = "i" + GETENV("CAMDOUTIL") + "\"PKUNZIP -O &desdir *.dbf *.cdx *.idx *.fpt"
1224: ENDIF
1225: USE &pkzipcom
1226: DELETE FILE t0000000.txt
1227: SET DEFA TO (CURDIR)
1228: RETURN
1229: *****
1230: CASE DOS
1231: *****
1232: PRIVATE CURDIR, datadir, msel
1233: CURDIR = FULLPATH(CURDIR())
1234: IF EMPTY(GETENV("CAMD"))
1235: datadir = FULLPATH(GETENV("CAMD"))
1236: ELSE
1237: datadir = CURDIR()

```

```

1131: m.ppath = patharray[ 1 ]
1132: * If the path popup is pointing to a subdirectory
1133: IF mpath > 1
1134: * Add all the subdirectories to the path string
1135: FOR i = 2 TO mpath
1136: m.ppath = m.ppath + "\" + patharray[ i ]
1137: NEXT i
1138: ENDIF
1139: * End the path with one last slash for good luck
1140: m.ppath = m.ppath + "\"
1141: RETURN m.ppath
1142: *****
1143: CASE WINDOWS
1144: *****
1145: PRIVATE CURDIR, datadir, msel
1146: CURDIR = FULLPATH(CURDIR())
1147: IF EMPTY(GETENV("KBDATA"))
1148: datadir = FULLPATH(GETENV("KBDATA"))
1149: ELSE
1150: datadir = CURDIR()
1151: ENDIF
1152: desdir = pathstring() + mfname
1153: SET DEFA TO (datadir)
1154: IF EMPTY(GETENV("CAMDOUTIL"))
1155: pkzipcom = "i" + GETENV("CAMDOUTIL") + "\"PKUNZIP -O &desdir *.dbf *.cdx *.idx *.fpt"
1156: ELSE
1157: pkzipcom = "i" + GETENV("CAMDOUTIL") + "\"PKUNZIP -O &desdir *.dbf *.cdx *.idx *.fpt"
1158: ENDIF
1159: USE &pkzipcom
1160: DELETE FILE t0000000.txt
1161: SET DEFA TO (CURDIR)
1162: RETURN
1163: *****
1164: CASE DOS
1165: *****
1166: PRIVATE CURDIR, datadir, msel
1167: CURDIR = FULLPATH(CURDIR())
1168: IF EMPTY(GETENV("CAMD"))
1169: datadir = FULLPATH(GETENV("CAMD"))
1170: ELSE
1171: datadir = CURDIR()

```

RESTORE Procedure PKUNZIP

PROCEDURE pkunzip

DO CASE

CASE DOS

PRIVATE CURDIR, datadir, msel

CURDIR = FULLPATH(CURDIR())

IF EMPTY(GETENV("CAMD"))

datadir = FULLPATH(GETENV("CAMD"))

ELSE

datadir = CURDIR()

[illegible]#REGION 0
REGIONAL m.currarea, m.talkstat, m.compostat

```

IF SET("TALK") = "ON"
  SET TALK OFF
  m.talkstat = "ON"
ELSE
  m.talkstat = "OFF"
ENDIF
m.compstat = SET("COMPATIBLE")
SET COMPATIBLE FOXPLUS

m.rborder = SET("READBORDER")
SET readborder ON

```

Windows Window definitions

```

IF NOT WEXIST("w_dd") ;
OR UPPER(WTITLE("w_dd")) == "w_dd.pjx" ;
OR UPPER(WTITLE("w_dd")) == "w_dd.scx" ;
OR UPPER(WTITLE("w_dd")) == "w_dd.mnx" ;
OR UPPER(WTITLE("w_dd")) == "w_dd.prg" ;
OR UPPER(WTITLE("w_dd")) == "w_dd.frx" ;
OR UPPER(WTITLE("w_dd")) == "w_dd.qpr" ;
DEFINE WINDOW w_dd ;
    AT 0.000, 0.000 ;
    SIZE 30.000,99.200 ;
    TITLE "Question - Data Dictionary" ;
    FONT "MS Sans Serif", 8 ;
    FLOAT ;
    NOCLOSE ;
    MINIMIZE ;
    SYSTEM
MOVE WINDOW w_dd CENTER
ENDIF

```

DD/Windows Setup Code - SECTION 2

* * * * *

```

67: #REGION 1
68: SELECT 0
69: USE area INDEX area
70: SELECT 0
71: USE area INDEX area
72: SELECT 0
73: USE area INDEX area
74: SELECT 0
75: USE area INDEX area
76: SELECT 0
77: USE dict INDEX dictid, dictname
78: SET RELATION TO id INTO enum, id INTO val
79: SELECT 0
80: USE goals INDEX goals
81: SELECT 0
82: USE quals INDEX quals
83: SELECT dict
84: SET ORDER TO 2
85: COPY TO ARRAY mdict FIELDS name, id
    md = 1

```

* * * * *

DD/Windows Screen Layout

```

95: #REGION 1
96: IF WVISIBLE("w_dd")
97:     ACTIVATE WINDOW w_dd SAME
98: ELSE
99:     ACTIVATE WINDOW w_dd NOSHOWN
00: ENDIF
01: @ 28,077,25,600 GET mbuttons ;
02:     PICTURE "a*HN \<Edit;\<Add;\<Delete;\<Quit";
03:     SIZE 1,917,7,500,0,750 ;
04:     DEFAULT 1 ;
05:     FONT "Terminal", 8 ;
06:     VALID _qsf0kpt2i()
07:     @ 1,077,7,400 GET mq ;
08:     PICTURE "a&N" ;
09:     FROM mdict ;
10:     SIZE 26,833,50,625 ;
11:     DEFAULT 1 ;
12:     FONT "Terminal", 8 ;
13:     VALID _qsf0kpt7d()
14:
15: IF NOT WVISIBLE("w_dd")
16:     ACTIVATE WINDOW w_dd
17: ENDIF
18:
19: READ CYCLE MODAL
20:
21: RELEASE WINDOW w_dd
22:
23: #REGION 0
24:
25: SET readborder &rborder
26:
27: IF m.talkstat = "ON"
28:     SET TALK ON
29: ENDIF
30: IF m.compstat = "ON"
31:     SET COMPATIBLE ON
32: ENDIF

```

DD/Windows Cleanup Code

DD/Windows Supporting Procedures and Functions

```

133: *
134: *
135: *
136: *
137: *
138: *
139: *
140: *
141: *
142: #REGION 1
143: SELECT area
144: USE
145: SELECT enum
146: USE
147: SELECT VAL
148: USE
149: SELECT dict
150: USE
151: SELECT goals
152: USE
153: SELECT quals
154: USE
155: RETURN
156: *
157: *
158: *
159: *
160: *
161: *
162: *
163: *
164: *
165: *
166: *
167: *
168: *
169: *
170: *
171: #REGION 1
172: FUNCTION validobj
173: PRIVATE msel,mvalid
174: mvalid = .f.
175: msel = SELECT()
176: SELECT quals
177: SEEK mdict[mq,2]
178: IF FOUND()
179:   IF EMPTY(rules) AND EMPTY(ruleso)
180:     mvalid = .t.
181:   ELSE
182:     =errmsg("Delete was not allow, the object was occupied",2)
183:   ENDIF
184: ELSE
185:   mvalid = .t.
186: ENDIF
187: RETURN mvalid
188: *
189: *
190: FUNCTION qualdel
191: PRIVATE msel
192: msel = SELECT()
193: SELECT dict
194: SET ORDER TO 1
195: SEEK mdict[mq,2]
196: IF FOUND()
197:   = popupshow("deleting...")
198: DO CASE

```

```

199: CASE dict.datatype $ "ELM"
200:   SELECT enum
201:   DELETE FOR id = dict.id
202:   PACK
203: CASE dict.datatype $ "N"
204:   SELECT VAL
205:   DELETE FOR id = dict.id
206:   PACK
207: ENDCASE
208: SELECT dict
209: DELETE
210: PACK
211: = popuphide()
212: ENDIF
213: SELECT (msel)
214: RETURN
215: *
216: FUNCTION resetdata
217: PRIVATE msel
218: msel = SELECT()
219: SELECT dict
220: SET ORDER TO 2
221: COPY TO ARRAY mdict FIELDS name, id
222: SELECT (msel)
223: RETURN
224: *
225: *
226: *
227: *
228: *
229: *
230: *
231: *
232: *
233: *
234: *
235: *
236: *
237: *
238: *
239: *
240: *
241: *
242: *
243: *
244: *
245: *
246: *
247: *
248: *
249: *
250: *
251: *
252: *
253: *
254: *
255: *
256: *
257: *
258: *
259: *
260: *
261: *
262: *
263: *
264: *

```

_QSF0KPT21 mbuttons VALID

Function Origin:

From Platform: Windows Record Number: 2
 From Screen: DD, mbuttons
 Variable: Called By: VALID Clause
 Object Type: Push Button
 Snippet Number: 1

FUNCTION _qsfoKpt2i && mbuttons VALID

```

#REGION 1-qsfoKpt2i
DO CASE
CASE mbuttons = 1
  IF mq > 0
    DO dedit.spr WITH mdict[mq,2], mdict[mq,1]
  ENDIF
CASE mbuttons = 2 && add
  m.adding = .t.
  SELECT dict
  SET ORDER TO 1
  GOTO BOTTOM
  m.id = id + 1
  m.name = ""
  DO dedit.spr WITH m.id, m.name
CASE mbuttons = 3 && delete
  mdel = validobj()
  IF mdel
    = qualdel()
  ENDIF
CASE mbuttons = 4 && Quit
  mok = .t.
  CLEAR READ
ENDCASE
DO resetdata

```

SHOW GETS

```

265: *
266: *
267: *
268: *
269: *
270: *
271: *
272: *
273: *
274: *
275: *
276: *
277: *
278: *
279: *
280: *
281: *
282: *
283: *
284: *
285: *
286: *
287: *

```

```

_qsfokpt7d      mq VALID
Function Origin:
From Platform:   Windows
From Screen:     DD,
Variable:        mq
Called By:       VALID Clause
Object Type:     List
Snippet Number:  2
Record Number:   3

```

```

281: FUNCTION _qsfokpt7d    && mq VALID
282: #REGION 1
283: IF mq > 0
284: DO ddedit.spr WITH mdict[mq,2], mdict[mq,1]
285: ENDIF
286: *: EOF: DD.ac1

```

```
--END IF

*
*
*
*
*
*
PLAN/WINDOWS SCREEN LAYOUT

*

#REGION 1
--IF WVISIBLE("W_goal")
--ACTIVATE WINDOW W_goal SAME
--ELSE
ACTIVATE WINDOW W_goal NOSHOWNOW
--END IF
@ 16,769,17,000 GET mbuttons ;
PICTURE "a*HN \<Add;\<OK;\<Cancel" ;
SIZE 1,769,8,000,1,000 ;
DEFAULT 1 ;
FONT "MS Sans Serif", 8 ;
STYLE "B" ;
VALID _qsf0kpv8r()
@ 0,462,2,500 GET mg ;
PICTURE "a&N" ;
FROM mggoals ;
SIZE 15,000,71,000 ;
DEFAULT 1 ;
FONT "MS Sans Serif", 8 ;
VALID _qsf0kpvcr()

--IF NOT WVISIBLE("W_goal")
--ACTIVATE WINDOW W_goal
--END IF

READ CYCLE MODAL

RELEASE WINDOW W_goal

#REGION 0

SET readborder &rborder

--IF m.talkstat = "ON"
--SET TALK ON
--END IF
--IF m.compstat = "ON"
--SET COMPATIBLE ON
--END IF

CASE_DOS

#REGION 0
REGIONAL m.curraarea, m.talkstat, m.compstat

--IF SET("TALK") = "ON"
SET TALK OFF
m.talkstat = "ON"
ELSE
```



```

245:
246:
247:
248: FUNCTION _qsf0kpvcr    && mg VALID
249: #REGION 1_
250: DO edgoal
251:
252:
253:
254:
255:
256:
257:
258:
259:
260:
261:
262:
263:
264:
265:
266:
267: FUNCTION _qsf0kpvqb    && mbuttons VALID
268: #REGION 1_
269: DO CASE
270: CASE mbuttons = 1
271: DEACTIVATE WINDOW w_goal
272: DO object.spr WITH "g"
273: ACTIVATE WINDOW w_goal
274: DO setgoals
275: CASE mbuttons = 2    && ok
276: mok = .T.
277: CLEAR READ
278: CASE mbuttons = 3    && cancel
279: mok = .F.
280: CLEAR READ
281: ENDCASE
282: SHOW GETS
283:
284:
285:
286:
287:
288:
289:
290:
291:
292:
293:
294:
295:
296:
297:
298:
299:
300: FUNCTION _qsf0kpvw8    && mg VALID
301: #REGION 1_
302: DO edgoal
303: *: EOF: PLAN.ac1

```

_QSF0KPVQB mbuttons VALID

Function Origin:

From Platform: MS-DOS

From Screen: PLAN,

Variable: mbuttons

Called By: VALID Clause

Object Type: Push Button

Snippet Number: 3

Record Number: 7

_QSF0KPVW8 mg VALID

Function Origin:

From Platform: MS-DOS

From Screen: PLAN,

Variable: mg

Called By: VALID Clause

Object Type: List

Snippet Number: 4

Record Number: 8

```

1:  *****
=> *****
2:  **
3:  ** Procedure file: C:\CAMD2\KBEDIT\WORK\ERRMSG.PRG
4:  **      System: Knowledge Base Editor
5:  **      Author: Hoa L. Ly
6:  **      Copyright (c) June 1, 1994, Naval Health Research Center, Code 2
=> 2
7:  **      Last modified: 07/29/94 at 9:22:58
8:  **
9:  **      Set by: ACTION.SPR
10: **      : ACTELSE.SPR
11: **      : QUIT()
12: **      : VALIDOBJ()
13: **      :
14: **      :
15: **      :
=> n 3.00a
15:  *****
=> *****
16:  **
17:  **      Open a message window
18:  **
19:  **      * ERRMSG( <exp>[, <exp>] )
20:  **
21:  **      PARAMETERS errmsg, timeout
22:  **      PRIVATE ALL
23:  **      * If no errmsg is sent then quit
24:  **      IF PARAMETERS()=0
25:  **      RETURN
26:  **      ENDIF
27:  **
28:  **      * m.Timeout is used in a WAIT TIMEOUT command
29:  **      * to control the amount of time ERRMSG display's its message
30:  **      * If no time limit is received set time to 0 wait forever
31:  **
32:  **      IF PARAMETERS()=1 OR EMPTY(m.timeout)
33:  **      m.timeout=0
34:  **      ENDIF
35:  **
36:  **      IF TYPE("m.timeout")="N"
37:  **      m.timeout=IF(EMPTY(m.timeout),"0",INT(VAL(m.timeout)),0)
38:  **      ENDIF
39:  **
40:  **      m.errmsg=IF(EMPTY(m.errmsg),"",m.errmsg)
41:  **
42:  **      IF PARAMETERS()=2 AND EMPTY(m.errmsg) AND m.timeout>0
43:  **      RETURN
44:  **      ENDIF
45:  **
46:  **      * set talk off
47:  **      IF SET('TALK') = 'ON' && TALK handled as a special case.
48:  **      SET TALK OFF
49:  **      savetalk = 'ON'
50:  **      ELSE && TALK is OFF
51:  **      savetalk = 'OFF'
52:  **      ENDIF
53:  **
54:  **      * Get the length of the message to size window
55:  **      m.len=LEN(m.errmsg)
56:  **      m.high = 1
57:  **      m.old = SET('memowidth')
58:  **      SET MEMOWIDTH TO 75
59:  **      * Set minimum length for the Press any key
60:  **      IF m.timeout = 0
61:  **      m.len=IF(m.len<30,m.len)
62:  **      ENDIF

```

```

63:  **
64:  **      IF m.len > 75
65:  **      m.high=MEMOLINES(m.errmsg)
66:  **      m.len=75
67:  **      ENDIF
68:  **
69:  **      *Find beginning/ending of the window
70:  **      m.begin=40-(INT(m.len/2)+1)
71:  **      m.end=40+(INT(m.len/2)+1)
72:  **
73:  **      * Remember the current window status
74:  **      m.oldwindow =IF( WOUTPUT() = errmsg, "" , WOUTPUT() )
75:  **
76:  **      * Create the window
77:  **      DEFINE WINDOW errmsg ;
78:  **      AT 22, BEGIN;
79:  **      SIZE m.high + 3, m.len + 5 ;
80:  **      FONT "terminal", 8 ;
81:  **      FLOAT ;
82:  **      NOCLOSE ;
83:  **      MINIMIZE ;
84:  **      DOUBLE ;
85:  **      COLOR RGB(,,0,0,255)
86:  **
87:  **      *define window errmsg from 18,m.begin to 23,m.end color scheme 1
88:  **      ACTIVATE WINDOW errmsg
89:  **
90:  **      * Print the message centered in the window
91:  **
92:  **      CLEAR
93:  **      @ 1, ( WCOL() - m.len )/2 SAY m.errmsg ;
94:  **      SIZE (m.high), (m.len);
95:  **      FONT "terminal",8
96:  **
97:  **      IF m.timeout = 0
98:  **      * m.pressedkey = "Press any key to continue"
99:  **      * @ 2, ( WCOL() - len( m.pressedkey ) )/2 say m.pressedkey
100:  **      IF m.high > 1
101:  **      @ ROW(), 1 SAY ""
102:  **      ELSE
103:  **      @ ROW() + 1, 1 SAY ""
104:  **      ENDIF
105:  **      WAIT
106:  **      ELSE
107:  **      * Wait for the number of seconds in m.Timeout
108:  **      * A value of 0 will wait forever
109:  **      WAIT "" TIMEOUT m.timeout
110:  **      ENDIF
111:  **
112:  **      * Close Window
113:  **      RELEASE WINDOW errmsg
114:  **
115:  **      * If there was no output window originally
116:  **      IF EMPTY( m.oldwindow )
117:  **      * Send future output back to the screen
118:  **      ACTIVATE SCREEN
119:  **      ELSE
120:  **      * Return output to the original window
121:  **      ACTIVATE WINDOW ( m.oldwindow )
122:  **      ENDIF
123:  **
124:  **      SET TALK &savetalk && Restore original TALK setting
125:  **
126:  **
127:  **
128:  **

```

129: <---RETURN

130: *: EOF: ERRMSG.act

08/09/94	DICT.SPR	09:40:02
Author's Name		
Copyright (c) 1994 Company Name		
Address		
City,	Zip	
Description: This program was automatically generated by GENSCRN.		

PARAMETERS m.newid

DICT/Windows Setup Code - SECTION 1

```
#REGION 1
PRIVATE mp, mpm, msel, m.adding
DIMENSION enum[20], enumr[20]
msel = SELECT()
SELECT dict
enum = " "
enumr = 0
mp = 1
m.adding = .F.
m.qrecno = RECNO()
SEEK m.newid
IF !FOUND()
    m.adding = .T.
    SCATTER MEMVAR BLANK
    m.id = m.newid
    SHOW GET m.datatype ENABLE
ELSE
    SCATTER MEMVAR
ENDIF
DO setenum
*do setval
```

```
#REGION 0
REGIONAL m.currarea, m.talkstat, m.compstat
```

```
IF SET("TALK") = "ON"
    SET TALK OFF
    m.talkstat = "ON"
ELSE
    m.talkstat = "OFF"
ENDIF
m.compstat = SET("COMPATIBLE")
SET COMPATIBLE FOXPLUS
m.rborder = SET("READBORDER")
SET readborder ON
```

DICT.AC1 10-3-94 3:01p Windows Window definitions

```
67: *
68: *
69: *
70: *
71: *
72: *
73: *
74: *
75: *
76: *
77: *
78: *
79: *
80: *
81: *
82: *
83: *
84: *
85: *
86: *
87: *
88: *
89: *
90: *
91: *
92: *
93: *
94: *
95: *
96: *
97: *
98: *
99: *
100: *
101: *
102: *
103: *
104: *
105: *
106: *
107: *
108: *
109: *
110: *
111: *
112: *
113: *
114: *
115: *
116: *
117: *
118: *
119: *
120: *
121: *
122: *
123: *
124: *
125: *
126: *
127: *
128: *
129: *
130: *
131: *
132: *
```

```
IF NOT EXIST("dict") ;
OR UPPER(WTITLE("dict")) == "DICT.PJX" ;
OR UPPER(WTITLE("dict")) == "DICT.SCX" ;
OR UPPER(WTITLE("dict")) == "DICT.MNX" ;
OR UPPER(WTITLE("dict")) == "DICT.PRG" ;
OR UPPER(WTITLE("dict")) == "DICT.FRX" ;
OR UPPER(WTITLE("dict")) == "DICT.QPR" ;
DEFINE WINDOW dict ;
AT 0,000,0,000 ;
SIZE 26,250,68,875 ;
TITLE "Dictionary Editor" ;
FONT "Terminal", 8 ;
FLOAT ;
NOCLOSE ;
MINIMIZE ;
SYSTEM ;
COLOR RGB(,0,255,255)
MOVE WINDOW dict CENTER
ENDIF
```

DICT/Windows Screen Layout

```
#REGION 1
IF WVISIBLE("dict")
    ACTIVATE WINDOW dict SAME
ELSE
    ACTIVATE WINDOW dict NOSHOW
ENDIF
a 1,333,55,250 SAY "Type" ;
FONT "Terminal", 8
a 22,167,10,500 SAY "Hi" ;
FONT "Terminal", 8
a 22,167,30,000 SAY "Lo" ;
FONT "Terminal", 8
a 22,167,48,000 SAY "Units" ;
FONT "Terminal", 8
a 1,333,3,000 SAY "id" ;
FONT "Terminal", 8
a 1,417,12,000 SAY "Name" ;
FONT "Terminal", 8
a 20,167,9,000 SAY "Width" ;
FONT "Terminal", 8
a 20,167,30,000 SAY "Decimals" ;
FONT "Terminal", 8
a 22,083,3,000 SAY "Range:" ;
FONT "Terminal", 8
a 8,667,3,375 SAY "Enum" ;
FONT "Terminal", 8
a 20,167,3,000 SAY "Val:" ;
FONT "Terminal", 8
a 1,167,6,250 GET m.id ;
SIZE 1,000,3,125 ;
DEFAULT " " ;
FONT "Terminal", 8 ;
DISABLE
a 1,167,18,250 GET m.name ;
```

```

133: SIZE 1,000,33.875 ;
134: DEFAULT " " ;
135: FONT "Terminal", 8
136: @ 1,083,60,500 GET m.datatype ;
137: PICTURE "a N;E;M;L;" ;
138: SIZE 1,500,4.375 ;
139: DEFAULT "N" ;
140: FONT "Terminal", 8 ;
141: VALID qsf0kpy4x() ;
142: DISABLE
143: @ 3,167,21,250 GET dict.askable ;
144: SIZE 1,000,4.625 ;
145: DEFAULT .F. ;
146: FONT "Terminal", 8
147: @ 5,000,3,250 EDIT m.question ;
148: SIZE 3,000,61.750,0.000 ;
149: DEFAULT " " ;
150: FONT "Terminal", 8 ;
151: SCROLL ;
152: WHEN dict.askable
153: @ 10,167,3,125 GET mp ;
154: PICTURE "a&N" ;
155: FROM enum ;
156: SIZE 9,333,62.000 ;
157: DEFAULT 1 ;
158: FONT "Terminal", 8 ;
159: WHEN m.datatype $ "EML" ;
160: VALID qsf0kpy8w()
161: @ 20,167,16,750 GET m.width ;
162: SIZE 1,000,5.500 ;
163: DEFAULT 0 ;
164: FONT "Terminal", 8 ;
165: WHEN m.datatype = "N" ;
166: DISABLE
167: @ 20,167,39,250 GET m.dec ;
168: SIZE 1,000,11.500 ;
169: DEFAULT 0 ;
170: FONT "Terminal", 8 ;
171: WHEN m.datatype = "N" ;
172: DISABLE
173: @ 22,167,16,750 GET m.hi ;
174: SIZE 1,000,10.000 ;
175: DEFAULT 0 ;
176: FONT "Terminal", 8 ;
177: WHEN m.datatype = "N" ;
178: DISABLE
179: @ 22,167,33,250 GET m.lo ;
180: SIZE 1,000,13.000 ;
181: DEFAULT 0 ;
182: FONT "Terminal", 8 ;
183: WHEN m.datatype = "N" ;
184: DISABLE
185: @ 22,167,54,250 GET m.units ;
186: SIZE 1,000,10.000 ;
187: DEFAULT " " ;
188: FONT "Terminal", 8 ;
189: WHEN m.datatype = "N" ;
190: DISABLE
191: @ 24,000,25,500 GET m.buttons ;
192: PICTURE "a*HT OK:Cancel" ;
193: SIZE 1,917,8.375,0.750 ;
194: DEFAULT 1 ;
195: FONT "Terminal", 8 ;
196: VALID qsf0kpyf6()
197: @ 3,167,3,000 SAY "question Askable:" ;
198: FONT "Terminal", 8 ;

```

```

199: STYLE "T"
200: IF NOT WVISIBLE("dict")
201: [ACTIVATE WINDOW dict
202: ENDIF
203:
204: READ CYCLE MODAL ;
205: WHEN _qsf0kpyj0()
206: [RELEASE WINDOW dict
207: ENDIF
208:
209: #REGION 0
210: SET readborder &rborder
211:
212: IF m.talkstat = "ON"
213: [SET TALK ON
214: ENDIF
215:
216: IF m.compstat = "ON"
217: [SET COMPATIBLE ON
218: ENDIF
219:
220: *
221: *
222: *
223: *
224: *
225: *
226: *
227: *
228: #REGION 1
229: SELECT dict
230: GOTO m.qreco
231: RETURN
232:
233: *
234: *
235: *
236: *
237: *
238: *
239: *
240: *
241: *
242: #REGION 1
243: PROCEDURE edenum
244: SELECT enum
245: IF enumr[mp] > 0
246: GOTO enumr[mp]
247: ENDIF
248: *m.id = dict.id
249: DO enum.spr
250: DO setenum
251: SHOW GETS
252: SELECT dict
253: RETURN
254:
255: PROCEDURE setenum
256: enum = " "
257: enumr = 0
258: IF m.datatype $ "EML"
259: PRIVATE msel, i
260: msel = SELECT()
261: SELECT enum
262: SEEK m.id
263:
264:

```

DICT/Windows Cleanup Code

DICT/Windows Supporting Procedures and Functions

```

265: i = 0
266: DO WHILE id = m.id
267:   i = i + 1
268:   enumr[i] = RECNO()
269:   enum[i] = mtext + " " + TRIM( enumerate )
270:   SKIP
271: ENDDO
272: mpn = i
273: mp = MIN(mpn, mp)
274: mp = MAX(1, mp)
275: IF enumr[mp] > 0
276:   GOTO enumr[mp]
277: ENDIF
278: SELECT (msel)
279: ENDIF
280: RETURN
281: PROCEDURE setval
282: IF m.datatype $ "N"
283:   PRIVATE msel, i
284:   msel = SELECT()
285:   SELECT VAL
286:   SCATTER MEMVAR
287:   SHOW GETS
288:   SELECT (msel)
289: ENDIF
290: RETURN
291:
292:
293:
294:
295:
296:
297:
298:
299:
300:
301:
302:
303:
304:
305:
306:
307:
308:
309:
310:
311:
312:
313:
314:
315:
316:
317:
318:
319:
320:
321:
322:
323:
324:
325:
326:
327:
328:
329:
330:

```

```

_QSF0KPY4X      m.datatype VALID
Function Origin:
From Platform:  Windows
From Screen:    DICT,
Variable:       m.datatype
Called By:      VALID Clause
Object Type:    Popup
Snippet Number: 1

```

```

FUNCTION _qsf0kpy4x  && m.datatype VALID
#REGION 1
SHOW GET m.datatype DISABLE

```

```

_QSF0KPY8W      mp VALID
Function Origin:
From Platform:  Windows
From Screen:    DICT,
Variable:       mp
Called By:      VALID Clause
Object Type:    List
Snippet Number: 2

```

```

FUNCTION _qsf0kpy8w  && mp VALID
#REGION 1
DO edenur

```

```

331:
332:
333:
334:
335:
336:
337:
338:
339:
340:
341:
342:
343:
344:
345:
346:
347:
348:
349:
350:
351:
352:
353:
354:
355:
356:
357:
358:
359:
360:
361:
362:
363:
364:
365:
366:
367:
368:
369:
370:
371:
372:
373:
374:
375:
376:
377:
378:
379:
380:
381:
382:
383:
384:
385:
386:
387:
388:
389:
390:
391:
392:
393:

```

```

_QSF0KPYF6      mbuttons VALID
Function Origin:
From Platform:  Windows
From Screen:    DICT,
Variable:       mbuttons
Called By:      VALID Clause
Object Type:    Push Button
Snippet Number: 3

```

```

FUNCTION _qsf0kpyf6  && mbuttons VALID
#REGION 1
DO CASE
CASE mbuttons = 1  && ok
  SELECT dict
  GATHER MEMVAR
  IF m.datatype $ "N"
    SELECT VAL
    GATHER MEMVAR
  ENDIF
CASE mbuttons = 2  && cancel
  mok = .F.
ENDCASE

```

```

_QSF0KPYJ0      Read Level When
Function Origin:
From Platform:  Windows
From Screen:    DICT
Called By:      READ Statement
Snippet Number: 4

```

```

FUNCTION _qsf0kpyj0  && Read Level When
#REGION 1
When Code from screen: DICT

```

```

IF m.datatype $ "N"
PRIVATE msel
msel = SELECT()
SELECT VAL
SCATTER MEMVAR
SHOW GET mp DISABLE
SHOW GET m.width ENABLE
SHOW GET m.dec ENABLE
SHOW GET m.hi ENABLE
SHOW GET m.lo ENABLE
SHOW GET m.units ENABLE
SHOW GETS
ENDIF

```

```

*: EOF: DICT.ac1

```

08/09/94	KBEDIT.SPR	09:40:05
Author's Name		
Copyright (c) 1994 Company Name		
Address		
City,	Zip	
Description:		
This program was automatically generated by GENSCRN.		

```

1:
2:
3:
4:
5:
6:
7:
8:
9:
10:
11:
12:
13:
14:
15:
16:
17:
18:
19:
20:
21:
22:
23:
24:
25:
26:
27:
28:
29:
30:
31:
32:
33:
34:
35:
36:
37:
38:
39:
40:
41:
42:
43:
44:
45:
46:
47:
48:
49:
50:
51:
52:
53:
54:
55:
56:
57:
58:
59:
60:
61:
62:
63:
64:
65:
66:

```

```

#REGION 0
REGIONAL m.curarea, m.talkstat, m.compstat

```

```

IF SET("TALK") = "ON"
  SET TALK OFF
  m.talkstat = "ON"
ELSE
  m.talkstat = "OFF"
ENDIF
m.compstat = SET("COMPATIBLE")
SET COMPATIBLE FOXPLUS
m.rborder = SET("READBORDER")
SET readborder ON

```

Windows Window definitions

```

IF NOT MEXIST("kbedit") ;
  OR UPPER(WTITLE("KBEDIT")) == "KBEDIT.PJX" ;
  OR UPPER(WTITLE("KBEDIT")) == "KBEDIT.SCX" ;
  OR UPPER(WTITLE("KBEDIT")) == "KBEDIT.MNX" ;
  OR UPPER(WTITLE("KBEDIT")) == "KBEDIT.PRG" ;
  OR UPPER(WTITLE("KBEDIT")) == "KBEDIT.FRX" ;
  OR UPPER(WTITLE("KBEDIT")) == "KBEDIT.QPR" ;
  DEFINE WINDOW kbedit ;
  AT 0.000, 0.000 ;
  SIZE 29.667,64.250 ;
  TITLE "Knowledge Base Rule Editor" ;
  FONT "Terminal", 8 ;
  FLOAT ;
  NOCLOSE ;
  MINIMIZE ;
  SYSTEM ;
  COLOR RGB(,128,128,128)
  MOVE WINDOW kbedit CENTER
ENDIF

```

KBEDIT/Windows Setup Code - SECTION 2

```

67:
68:
69:
70:
71:
72:
73:
74:
75:
76:
77:
78:
79:
80:
81:
82:
83:
84:
85:
86:
87:
88:
89:
90:
91:
92:
93:
94:
95:
96:
97:
98:
99:
100:
101:
102:
103:
104:
105:
106:
107:
108:
109:
110:
111:
112:
113:
114:
115:
116:
117:
118:
119:
120:
121:
122:
123:
124:
125:
126:
127:
128:
129:
130:
131:
132:

```

```

*
#REGION 1
PRIVATE mp, me, ma, mpm, man, ntriples,ptop
DIMENSION prem[50], premm[50], triple[50,5]
DIMENSION premo[50], prems[50], premm[50]
DIMENSION act[50], actr[50], actelse[50], actelser[50]

PRIVATE msel
msel = SELECT()
SELECT 0
USE fact INDEX fact
SELECT 0
USE premise INDEX premise
SET RELATION TO fact INTO fact
SELECT 0
USE action INDEX action
SELECT 0
USE rule INDEX rulearea,saliency,rule
SET RELATION TO premise INTO premise, action INTO action
SELECT area
SET RELATION TO area INTO rule
SELECT rule
SET TOPIC TO "RULE"
mp = 1
act = " "
actr = 0
ma = 1
me = 1
DO setpremm
DO setact
DO setelse
DO setaction

```

KBEDIT/Windows Screen Layout

```

*
*
*
*
*
*
#REGION 1
IF WVISTIBLE("kbedit")
  ACTIVATE WINDOW kbedit SAME
ELSE
  ACTIVATE WINDOW kbedit NOSHOW
ENDIF
a 3.167,1.625 SAY "Rule:" ;
FONT "Terminal", 8 ;
STYLE "T"
a 1.167,18.250 GET m.areaaname ;
SIZE 1.000,34.000 ;
DEFAULT " " ;
FONT "Terminal", 8 ;
DISABLE
a 3.167,7.750 GET rule.rule ;
SIZE 1.000,25.000 ;
DEFAULT 0 ;
FONT "Terminal", 8 ;
DISABLE
a 5.000,1.500 GET minvpremm ;
PICTURE "a*HN \<IF:" ;
SIZE 1.500,7.250,0.750 ;
DEFAULT 1 ;

```

KBEDIT/Windows Cleanup Code

KBEDIT/Windows Supporting Procedures and Functions

```

199: *
200: *
201: *
202: *
203: *
204: *
205: *
206: #REGION 1
207: SELECT rule
208: USE
209: SELECT premise
210: USE
211: SELECT fact
212: USE
213: SELECT action
214: USE
215: SELECT (msel)
216: RETURN
217: *
218: *
219: *
220: *
221: *
222: *
223: *
224: *
225: *
226: *
227: *
228: #REGION 1
229: PROCEDURE setprem
230: PRIVATE msel, i, j, jj, K, N, P, R, S
231: msel = SELECT()
232: SELECT premise
233: SEEK rule.premise
234: i = 0
235: N = 0
236: prem = ""
237: *
238: * collect all triples
239: DO WHILE clause = rule.premise .AND. !EOF()
240: i = i + 1
241: triple(i,1) = premise.op
242: triple(i,2) = premise.fact
243: triple(i,3) = premise.factr
244: triple(i,4) = 0
245: triple(i,5) = RECNO()
246: SKIP
247: ENDDO
248: ntriples = i
249: *
250: * collect leaf nodes
251: SELECT fact
252: FOR j = 1 TO ntriples
253: IF EMPTY( triple(j,1) )
254: SEEK triple(j,2)
255: IF FOUND()
256: N = N + 1
257: IF OBJECT = "IS"
258: SELECT dict
259: ELSE
260: SELECT disease
261: ENDF
262: SEEK fact.id
263: m.name = name
264: SELECT fact
265: m.val = TRIM( IIF( TAG = "IT", LEFT

```

```

265: SELECT dict
266: FOR jj = 1 TO 2
267:   K = AT( "a", m.val, jj )
268:   IF K = 0
269:     EXIT
270:   ENDIF
271:   p = VAL( SUBSTR( m.val, K + 1 ) )
272:   SEEK P
273:   m.val = STRTRAN( m.val, "a" + LTRIM( STR( p ) ), "(" + TR
274: => IM( name ) + ")" )
275: NEXT
276:
277: SELECT fact
278:   prem[n] = TRIM( m.name ) + " " + op + " " + m.val
279:   prem[n] = j
280:   premo[n] = ""
281:   triple[j,4] = N
282: ENDIF
283: NEXT
284:
285: SELECT premise
286:   premm = .F.
287:   ptop = 0
288:   IF ntriples > 0
289:     =PUSH(ntriples)    && root of expression tree
290:   ENDIF
291:
292: * parse the expression tree
293: DO WHILE !empty()
294:   i = POP()
295:   IF !EMPTY( triple[i, 1] )
296:     * operator node
297:     IF !premm[i]
298:       * not yet marked; defer
299:       premm[i] = .F.
300:       =PUSH( i )
301:       && push operator
302:       =PUSH( triple[i, 3] )
303:       =PUSH( triple[i, 2] )
304:     ELSE
305:       * already marked...
306:       j = triple[triple[i, 2], 4] && left term
307:       k = triple[triple[i, 3], 4] && right term
308:       triple[i, 4] = j
309:       IF LEFT( premo[k], 1 ) = triple[i, 1]
310:         * same operator; fold tree
311:         s = hlink( SUBSTR( premo[j], 3 ) ) && add link
312:         premo[j] = " " + s && add elbow
313:         premo[k] = [ IF(EMPTY(premo[k]), ALLTRIM(STR(i)), premo[k] ) +
=> " " + ALLTRIM(STR(i)) ]
314:       ELSE
315:         s = hlink( premo[j] )
316:         premo[j] = " " + s
317:         s = hlink( premo[k] )
318:         premo[k] = triple[i, 1] + " " + s && opcode and right chil
=> d
319:       premo[k] = IIF(EMPTY(premo[k]), ALLTRIM(STR(i)), premo[k] ) +
=> " " + ALLTRIM(STR(i))
320:       * indent remaining terms
321:       FOR R = 1 TO N
322:         IF R <> j .AND. R <> k
323:           * indent
324:           premo[r] = SPACE(2) + premo[r]
325:         ENDIF
326:       NEXT

```

```

327:
328: * bridge missing links
329: FOR R = 1 TO N
330:   IF R > j .AND. R < k
331:     s = premo[r]
332:     IF EMPTY( LEFT( s, 1 ) )
333:       premo[r] = " " + SUBSTR( s, 2 )
334:     ENDIF
335:   NEXT
336:
337: * cleanup
338: FOR R = j TO K-1
339:   * complete missing links
340:   =vlink( " ", " " )
341:   =vlink( " ", " " )
342:   =vlink( " ", " " )
343:   =vlink( " ", " " )
344: NEXT
345: ENDIF
346: ENDDO
347:
348: mpn = N
349: mp = MIN( mpn, mp )
350: mp = MAX( 1, mp )
351: SELECT (msel)
352: RETURN
353:
354: FUNCTION vlink
355:   PARAMETERS FROM, TO
356:   PRIVATE 1,s
357:   i = 1
358:   DO WHILE EMPTY( SUBSTR( premo[r], i, 1 ) )
359:     i = i + 1 && find leading non-blank
360:   ENDDO
361:   s = premo[r+1]
362:   * complete missing links
363:   IF SUBSTR( premo[r], i, 1 ) = FROM .AND. SUBSTR( s, i, 1 ) = TO
364:     premo[r+1] = LEFT( s, i-1 ) + " " + SUBSTR( s, i+1 )
365:   ENDIF
366: RETURN ""
367:
368: FUNCTION hlink
369:   PARAMETERS s
370:   PRIVATE p
371:   p = ""
372:   DO WHILE EMPTY( LEFT( s, 2 ) )
373:     p = p + " "
374:     s = SUBSTR( s, 3 )
375:   ENDDO
376: RETURN p + s
377:
378: FUNCTION push
379:   PARAMETERS N
380:   ptop = ptop + 1
381:   prems[ptop] = N
382: RETURN N
383:
384: FUNCTION pop
385:   PRIVATE N
386:   N = prems[ptop]
387:   ptop = ptop - 1
388: RETURN N
389:
390: FUNCTION empty
391: RETURN ptop < 1
392:

```

```

393: PROCEDURE setact
394: PRIVATE msel, i, j, K, p
395: msel = SELECT()
396: SELECT action
397: SEEK rule.action
398: i = 0
399: act = " "
400: actr = 0
401: DO WHILE clause = rule.action .AND. IEOF()
402: i = i + 1
403: actr[i] = RECNO()
404: IF OBJECT = "D"
405: SELECT disease
406: ELSE
407: SELECT dict
408: ENDIF
409: SEEK action.id
410: m.name = name
411: SELECT action
412: m.val = TRIM( IIF( TAG = "T", LEFT( TEXT, 80), VAL ) )
413: SELECT dict
414: FOR j = 1 TO 2
415: K = AT ( "a", m.val, j )
416: IF K = 0
417: EXIT
418: ENDIF
419: p = VAL( SUBSTR( m.val, K + 1 ) )
420: SEEK p
421: m.val = STRTRAN( m.val, "a" + LTRIM( STR( p ) ), "(" + TRIM( na
=> me ) + ")" )
422: NEXT
423: SELECT action
424: act[i] = TRIM( m.name ) + " " + op + " " + m.val
425: SKIP
426: ENDDO
427: man = i
428: ma = MIN( man, ma )
429: ma = MAX( 1, ma )
430: IF actr[ma] > 0
431: GOTO actr[ma]
432: ENDIF
433: SELECT (msel)
434: RETURN
435:
436: PROCEDURE setelse
437: PRIVATE msel, i, j, K, p
438: msel = SELECT()
439: SELECT action
440: SEEK rule.else
441: i = 0
442: actelse = " "
443: actelser = 0
444: DO WHILE clause = rule.else .AND. IEOF()
445: i = i + 1
446: actelser[i] = RECNO()
447: IF OBJECT = "D"
448: SELECT disease
449: ELSE
450: SELECT dict
451: ENDIF
452: SEEK action.id
453: m.name = name
454: SELECT action
455: m.val = TRIM( IIF( TAG = "T", LEFT( TEXT, 80), VAL ) )
456: SELECT dict
457: FOR j = 1 TO 2

```

```

458: K = AT ( "a", m.val, j )
459: IF K = 0
460: EXIT
461: ENDIF
462: p = VAL( SUBSTR( m.val, K + 1 ) )
463: SEEK p
464: m.val = STRTRAN( m.val, "a" + LTRIM( STR( p ) ), "(" + TRIM( na
=> me ) + ")" )
465: NEXT
466: SELECT action
467: actelse[i] = TRIM( m.name ) + " " + op + " " + m.val
468: SKIP
469: ENDDO
470: man = i
471: IF EMPTY( man )
472: actelse[1] = ""
473: actelser[1] = 0
474: ELSE
475: me = MIN( man, me )
476: me = MAX( 1, me )
477: IF actelser[me] > 0
478: GOTO actelser[me]
479: ENDIF
480: ENDIF
481: SELECT (msel)
482: RETURN
483:
484: FUNCTION setaction
485: IF EMPTY( prem[1] )
486: SHOW GET minvprem DISABLE
487: SHOW GET mp DISABLE
488: ELSE
489: SHOW GET minvprem ENABLE
490: SHOW GET mp ENABLE
491: ENDIF
492: IF EMPTY( act[1] )
493: SHOW GET minvact DISABLE
494: SHOW GET ma DISABLE
495: ELSE
496: SHOW GET minvact ENABLE
497: SHOW GET ma ENABLE
498: ENDIF
499: IF EMPTY( actelse[1] )
500: SHOW GET minvelse DISABLE
501: SHOW GET me DISABLE
502: ELSE
503: SHOW GET minvelse ENABLE
504: SHOW GET me ENABLE
505: ENDIF
506: RETURN
507:
508: *
509: *
510: *
511: *
512: *
513: *
514: *
515: *
516: *
517: *
518: *
519: *
520: *
521: *
522: *

```

minvprem VALID

Function Origin:

From Platform:
From Screen:
Variable:
Called By:
Object Type:
Snippet Number:

Record Number: 5

KBEDIT,
minvprem
VALID Clause
Push Button
1

523: FUNCTION _qs0kq0sa && minvpem VALID

524: #REGION 1
525: PRIVATE msel
526: msel = SELECT()
527: SELECT premise
528: LOCATE FOR clause = rule.premise
529: SET TOPIC TO "PREMISE"
530: DO term.spr
531: DO setprem
532: SELECT (msel)
533: SHOW GETS
534:
535: *

_QS0KQ0WK minvact VALID

Function Origin:
From Platform: Windows
From Screen: KBEDIT,
Variable: minvact
Called By: VALID Clause
Object Type: Push Button
Snippet Number: 2
Record Number: 7

549: FUNCTION _qs0kq0wk && minvact VALID

550: #REGION 1
551: PRIVATE msel
552: msel = SELECT()
553: SELECT action
554: LOCATE FOR clause = rule.action
555: SET TOPIC TO "ACTION"
556: DO action.spr
557: SELECT (msel)
558: SHOW GETS
559:
560: *

_QS0KQ10R minvelse VALID

Function Origin:
From Platform: Windows
From Screen: KBEDIT,
Variable: minvelse
Called By: VALID Clause
Object Type: Push Button
Snippet Number: 3
Record Number: 9

576: FUNCTION _qs0kq10r && minvelse VALID

577: #REGION 1
578: PRIVATE msel
579: msel = SELECT()
580: SELECT action
581: LOCATE FOR clause = rule.else
582: SET TOPIC TO "ACTION"
583: DO actelse.spr
584: DO setelse
585: SHOW GETS
586: SELECT (msel)
587:
588: *

589: *

590: *_QS0KQ14Z mbutton VALID
591: Function Origin:
592: From Platform: Windows
593: From Screen: KBEDIT,
594: Variable: mbutton
595: Called By: VALID Clause
596: Object Type: Push Button
597: Snippet Number: 4
598:
599: *

602: FUNCTION _qs0kq14z && mbutton VALID

603: #REGION 1
604: SELECT rule
605: DO CASE
606: CASE mbutton = 1 && <Next>
607: IF !EOF()
608: SKIP
609: ELSE GOTO BOTTOM
610: ENDIF
611: m.goback = area != m.areaid
612: IF m.goback
613: GOTO m.recno
614: ENDIF
615: CASE mbutton = 2 && <previous>
616: IF !EOF()
617: SKIP -1
618: ELSE GOTO TOP
619: ENDIF
620: m.goback = area != m.areaid
621: IF m.goback
622: GOTO m.recno
623: ENDIF
624: CASE mbutton = 3 && <Browse>
625: SET TOPIC TO "BROWSE"
626: BROWSE FIELDS rule,salience FOR area = m.areaid NOEDIT
627: CASE mbutton = 4 && <Edit>
628: SET TOPIC TO "EDIT"
629: DO rule.spr
630: CASE mbutton = 5 && <Quit>
631: CLEAR READ
632: RETURN
633: ENDCASE
634: SCATTER MEMVAR
635: DO setprem
636: DO setact
637: DO setelse
638: SHOW GETS
639: mtopic = ALIAS()
640: SET TOPIC TO &mtopic
641: * EOF: KBEDIT.ac1
642:
643:
644:
645:
646:
647:

1: *
2: *
3: *
4: *
5: *
6: *
7: *
8: *
9: *
10: *
11: *
12: *
13: *
14: *
15: *
16: *
17: *
18: *
19: *
20: *
21: *
22: *
23: *
24: *
25: *
26: *
27: *
28: *
29: *
30: *
31: *
32: *
33: *
34: *
35: *
36: *
37: *
38: *
39: *
40: *
41: *
42: *
43: *
44: *
45: *
46: *
47: *
48: *
49: *
50: *
51: *
52: *
53: *
54: *
55: *
56: *
57: *
58: *
59: *
60: *
61: *
62: *
63: *
64: *
65: *
66: *

08/09/94	OBLIST.SPR	09:40:10
Author's Name		
Copyright (c) 1994 Company Name		
Address		
City, Zip		
Description:		
This program was automatically generated by GENSCRN.		

PARAMETERS marray, m.item

OBLIST/MS-DOS Setup Code - SECTION 1

67: *
68: *
69: *
70: *
71: *
72: *
73: *
74: *
75: *
76: *
77: *
78: *
79: *
80: *
81: *
82: *
83: *
84: *
85: *
86: *
87: *
88: *
89: *
90: *
91: *
92: *
93: *
94: *
95: *
96: *
97: *
98: *
99: *
100: *
101: *
102: *
103: *
104: *
105: *
106: *
107: *
108: *
109: *
110: *
111: *
112: *
113: *
114: *
115: *
116: *
117: *
118: *
119: *
120: *
121: *
122: *
123: *
124: *
125: *
126: *
127: *
128: *
129: *
130: *
131: *
132: *

OBLIST/MS-DOS Screen Layout

```
#REGION 1
IF WVISIBLE("w_obj")
  ACTIVATE WINDOW w_obj SAME
ELSE
  ACTIVATE WINDOW w_obj NOSHOWN
ENDIF
a 0,1 GET m_obj ;
  PICTURE "a&n" ;
  FROM marray ;
  SIZE 17,58 ;
  DEFAULT 1 ;
  COLOR SCHEME 2
a 18,19 GET m.buttons ;
  PICTURE "a*HT \<New;\<Ok;\<Cancel" ;
  SIZE 1,8,1 ;
  DEFAULT 1 ;
  VALID _qsfoKq4m3()
```

```
IF NOT WVISIBLE("w_obj")
  ACTIVATE WINDOW w_obj
ENDIF
```

READ CYCLE

RELEASE WINDOW w_obj

```
#REGION 0
IF m.talkstat = "ON"
  SET TALK ON
ENDIF
IF m.compstat = "ON"
  SET COMPATIBLE ON
ENDIF
```

OBLIST/MS-DOS Cleanup Code

```
#REGION 1
*FUNCTION validf
*IF Iseek(id,'quals')
*RETURN right(str(id),5) + " " + name
*ENDIF
*RETURN
```

_QSFOKq4M3 m.buttons VALID

Function Origin:

From Platform: MS-DOS
From Screen: OBLIST,

Record Number: 3

Variable: m.buttons
Called By: VALID Clause
Object Type: Push Button
Snippet Number: 1

```
133: *  
134: *  
135: *  
136: *  
137: *  
138: *  
139: *  
140: FUNCTION _qsf0kq4m3    && m.buttons VALID  
141: #REGION 1  
142: DO CASE  
143: -CASE m.buttons = 1  
144:   m.item = ""  
145: -CASE m.buttons = 2  
146:   m.item = marray[m.obj]  
147: -OTHERWISE  
148:   m.item = ""  
149: -ENDCASE  
150: *: EOF: OBLIST.ac1
```



```

133: @ 3.167,4.500 SAY "Use in rules:" ;
134: FONT "Terminal", 8 ;
135: STYLE "T"
136: @ 1.167,7.750 GET m.id ;
137: SIZE 1.000,3.125 ;
138: DEFAULT " " ;
139: FONT "Terminal", 8 ;
140: DISABLE
141: @ 1.167,19.750 GET m.name ;
142: SIZE 1.000,33.875 ;
143: DEFAULT " " ;
144: FONT "Terminal", 8
145: @ 1.083,63.000 GET m.datatype ;
146: PICTURE "a- N-E-M:L" ;
147: SIZE 1.500,4.375 ;
148: DEFAULT "N" ;
149: FONT "Terminal", 8 ;
150: VALID qsf0kq6mi() ;
151: DISABLE
152: @ 5.167,4.625 GET m.rulesuse ;
153: PICTURE "a&N" ;
154: FROM mrules ;
155: SIZE 4.667,62.875 ;
156: DEFAULT 1 ;
157: FONT "Terminal", 8
158: @ 11.333,22.750 GET m.askable ;
159: SIZE 1.000,4.625 ;
160: DEFAULT .F. ;
161: FONT "Terminal", 8
162: @ 13.167,4.750 EDIT m.question ;
163: SIZE 3.000,62.875,0.000 ;
164: DEFAULT " " ;
165: FONT "Terminal", 8 ;
166: SCROLL ;
167: WHEN m.askable
168: @ 19.167,4.625 GET mp ;
169: PICTURE "a&N" ;
170: FROM enum ;
171: SIZE 7.000,62.875 ;
172: DEFAULT 1 ;
173: FONT "Terminal", 8 ;
174: WHEN m.datatype $ "EML" ;
175: VALID qsf0kq6t0()
176: @ 27.167,16.750 GET m.width ;
177: SIZE 1.000,13.000 ;
178: DEFAULT 0 ;
179: FONT "Terminal", 8 ;
180: WHEN m.datatype = "N" ;
181: DISABLE
182: @ 27.167,49.750 GET m.dec ;
183: SIZE 1.000,16.000 ;
184: DEFAULT 0 ;
185: FONT "Terminal", 8 ;
186: WHEN m.datatype = "N" ;
187: DISABLE
188: @ 29.167,16.750 GET m.hi ;
189: SIZE 1.000,13.000 ;
190: DEFAULT 0 ;
191: FONT "Terminal", 8 ;
192: WHEN m.datatype = "N" ;
193: DISABLE
194: @ 29.167,34.750 GET m.lo ;
195: SIZE 1.000,13.000 ;
196: DEFAULT 0 ;
197: FONT "Terminal", 8 ;
198: WHEN m.datatype = "N" ;

```

```

199: DISABLE
200: @ 29.333,55.750 GET m.units ;
201: SIZE 1.000,10.000 ;
202: DEFAULT " " ;
203: FONT "Terminal", 8 ;
204: WHEN m.datatype = "N" ;
205: DISABLE
206: @ 31.000,27.000 GET m.buttons ;
207: PICTURE "a*HT OK:Cancel" ;
208: SIZE 1.917,8.375,0.750 ;
209: DEFAULT 1 ;
210: FONT "Terminal", 8 ;
211: VALID qsf0kq6yy()
212: IF NOT WVISIBLE(" qsf0kq5ys")
213: ACTIVATE WINDOW _qsf0kq5ys
214: ENDIF
215:
216: READ CYCLE ;
217: WHEN _qsf0kq74f()
218:
219: RELEASE WINDOW _qsf0kq5ys
220: #REGION 0
221: SET readborder &rborder
222:
223:
224:
225: IF m.talkstat = "ON"
226: SET TALK ON
227: ENDIF
228: IF m.compstat = "ON"
229: SET COMPATIBLE ON
230: ENDIF
231:
232:
233:
234:
235:
236:
237:
238:
239:
240: #REGION 1
241: SELECT dict
242: RETURN
243:
244:
245:
246:
247:
248:
249:
250:
251:
252:
253:
254:
255:
256:
257:
258:
259: #REGION 1
260: FUNCTION setrules
261: PRIVATE msel,mvalid
262: msel = SELECT()
263: SELECT quals
264: SET FILTER TO id = m.id AND OBJECT = "S"

```

DDEDIT/Windows Cleanup Code

DDEDIT/Windows Supporting Procedures and Functions

```

265: COUNT TO mcount
266: IF mcount > 0
267:   DIMENSION mrules[mcount]
268:   i = 0
269:   SCAN
270:     i = i + 1
271:     mrules[i] = areaname(area) + "--- rules: " + ALLTRIM(STRTRAN(rul
=> es," ",","))
272:   IF IEMPTY(ruleso)
273:     mrules[i] = mrules[i] + IIF(EMPTY(rules),"",",") ;
274:     mrules[i] + ALLTRIM(STRTRAN(ruleso,"|",","))
275:   ENDIF
276: ENDSCAN
277: ELSE
278:   DIMENSION mrules[1]
279:   mrules[1]=""
280: ENDIF
281: SET FILTER TO
282: SELECT (msel)
283: RETURN
284:
285: PROCEDURE edenum
286: SELECT enum
287: IF enumr[mp] > 0
288:   GOTO enumr[mp]
289: ENDIF
290: *m.id = dict.id
291: DO ddenum.spr
292: DO setenum
293: SHOW GETS
294: SELECT dict
295: RETURN
296:
297: PROCEDURE setenum
298: enum = ""
299: enumr = 0
300: IF m.datatype $ "EML"
301:   PRIVATE msel, i
302:   msel = SELECT(
303:     SELECT enum
304:     SEEK m.id
305:     i = 0
306:     DO WHILE id = m.id
307:       i = i + 1
308:       enumr[i] = RECNO(
309:         enum[i] = mutex + " " + TRIM( enumerate )
310:       )
311:       SKIP
312:     ENDDO
313:     mpn = i
314:     mp = MIN(mpn, mp)
315:     mp = MAX(1, mp)
316:     IF enumr[mp] > 0
317:       GOTO enumr[mp]
318:     ENDIF
319:   SELECT (msel)
320: ENDIF
321: RETURN
322:
323: PROCEDURE setval
324: PRIVATE m.dictid
325: IF m.datatype $ "N"
326:   PRIVATE msel, i
327:   msel = SELECT(
328:     SELECT VAL
329:     m.dictid = m.id

```

```

330: SEEK m.id
331: IF FOUND(
332:   SCATTER MEMVAR
333: ELSE
334:   SCATTER MEMVAR BLANK
335:   m.id = m.dictid
336: ENDIF
337: SHOW GETS
338: SELECT (msel)
339: ENDIF
340: RETURN
341:
342: FUNCTION cleanenum
343: PRIVATE msel
344: msel = SELECT(
345:   SELECT enum
346:   SEEK m.id
347:   IF FOUND(
348:     DELETE FOR id = m.id
349:     PACK
350:   ENDIF
351:   SELECT (msel)
352:   RETURN
353:
354: FUNCTION areaname
355: PARAMETER mid
356: PRIVATE msel, mname
357:
358: msel = SELECT(
359:   SELECT area
360:   SEEK mid
361:   IF FOUND(
362:     mname = name
363:   ELSE
364:     mname = ""
365:   ENDIF
366:   SELECT (msel)
367:   RETURN mname
368:
369:
370:
371:
372:
373:
374:
375:
376:
377:
378:
379:
380:
381:
382:
383:
384:
385:
386:
387:
388:
389:
390:
391:
392:
393:
394:
395:

```

_qsfoKq6M1		m.datatype VALID	
Function Origin:			
From Platform:	Windows	Record Number:	17
From Screen:	DDEDIT,	m.datatype	
Variable:	VALID Clause	Object Type:	Popup
Called By:	1	Snippet Number:	

```

FUNCTION _qsfoKq6M1 && m.datatype VALID
#REGION 1_
DO CASE
CASE m.datatype $ "N"
  DO setval
  enum = ""
  SHOW GET mp DISABLE
  SHOW GET m.width ENABLE
  SHOW GET m.dec ENABLE
  SHOW GET m.hi ENABLE

```



```

1:
2:
3:
4:
5:
6:
7:
8:
9:
10:
11:
12:
13:
14:
15:
16:
17:
18:
19:
20:
21:
22:
23:
24:
25:
26:
27:
28:
29:
30:
31:
32:
33:
34:
35:
36:
37:
38:
39:
40:
41:
42:
43:
44:
45:
46:
47:
48:
49:
50:
51:
52:
53:
54:
55:
56:
57:
58:
59:
60:
61:
62:
63:
64:
65:
66:

```

08/09/94	DDENUM.SPR	09:40:17
Author's Name		
Copyright (c) 1994 Company Name		
Address		
City,	Zip	
Description: This program was automatically generated by GENSCRN.		

```

17:
18:
19:
20:
21:
22:
23:
24:
25:
26:
27:
28:
29:
30:
31:
32:
33:
34:
35:
36:
37:
38:
39:
40:
41:
42:
43:
44:
45:
46:
47:
48:
49:
50:
51:
52:
53:
54:
55:
56:
57:
58:
59:
60:
61:
62:
63:
64:
65:
66:

```

PARAMETERS m.new

DDENUM/Windows Setup Code - SECTION 1

```

17:
18:
19:
20:
21:
22:
23:
24:
25:
26:
27:
28:
29:
30:
31:
32:
33:
34:
35:
36:
37:
38:
39:
40:
41:
42:
43:
44:
45:
46:
47:
48:
49:
50:
51:
52:
53:
54:
55:
56:
57:
58:
59:
60:
61:
62:
63:
64:
65:
66:

```

```

#REGION 1
m.dictid = m.id
IF PARAMETER() = 0
m.enumadd = .F.
SCATTER MENVAR
ELSE
m.dictid = m.id
m.enumadd = .T.
SELECT enum
SEEK m.dictid
IF !FOUND()
m.enumadd = .T.
m.ord = 1
m.id = m.dictid
m.mutext = ". "
ELSE
SCATTER MENVAR
ENDIF
SHOW GETS
#REGION 0
REGIONAL m.curarea, m.talkstat, m.compstat
IF SET("TALK") = "ON"
SET TALK OFF
m.talkstat = "ON"
ELSE
m.talkstat = "OFF"
ENDIF
m.compstat = SET("COMPATIBLE")
SET COMPATIBLE FOXPLUS
m.rborder = SET("READBORDER")
SET readborder ON

```

Windows Window definitions

DDENUM.AC1 10-3-94 3:01p

```

67:
68:
69:
70:
71:
72:
73:
74:
75:
76:
77:
78:
79:
80:
81:
82:
83:
84:
85:
86:
87:
88:
89:
90:
91:
92:
93:
94:
95:
96:
97:
98:
99:
100:
101:
102:
103:
104:
105:
106:
107:
108:
109:
110:
111:
112:
113:
114:
115:
116:
117:
118:
119:
120:
121:
122:
123:
124:
125:
126:
127:
128:
129:
130:
131:
132:

```

```

*
*
-IF NOT WEXIST(" qsf0kq96z")
DEFINE WINDOW qsf0kq96z ;
AT 20,750,7,500 ;
SIZE 9,077,98,200 ;
FONT "MS Sans Serif", 8 ;
FLOAT ;
NOCLOSE ;
MINIMIZE ;
SYSTEM
-ENDIF

*
*
*
*
*
*
#REGION 1
-IF WVISIBLE(" qsf0kq96z")
ACTIVATE WINDOW _qsf0kq96z SAME
ELSE
ACTIVATE WINDOW _qsf0kq96z NOSHOW
ENDIF
a 5,154,5,000 SAY "Ord" ;
FONT "Terminal", 8 ;
a 1,462,4,800 SAY "MuteX" ;
FONT "Terminal", 8 ;
a 3,308,4,800 SAY "Enum" ;
FONT "Terminal", 8 ;
a 5,154,14,000 GET m.ord ;
SIZE 1,000,2,000 ;
DEFAULT " " ;
FONT "Terminal", 8 ;
DISABLE
a 1,615,14,400 GET m.mutext ;
SIZE 1,000,1,000 ;
DEFAULT " " ;
FONT "Terminal", 8 ;
VALID qsf0kq96z()
a 3,231,14,400 GET m.enumerate ;
SIZE 1,000,47,750 ;
DEFAULT " " ;
FONT "Terminal", 8 ;
PICTURE "q!"
a 6,462,26,400 GET m.buttons ;
PICTURE "a*HN Add;OK;Cancel" ;
SIZE 1,917,7,500,0,750 ;
DEFAULT 1 ;
FONT "Terminal", 8 ;
VALID _qsf0kq96z()

-IF NOT WVISIBLE(" qsf0kq96z")
ACTIVATE WINDOW _qsf0kq96z
ENDIF

READ CYCLE
RELEASE WINDOW _qsf0kq96z
#REGION 0

```

DDENUM/Windows Screen Layout

```

133: SET readborder &rborder
134:
135: IF m.talkstat = "ON"
136:   SET TALK ON
137: ENDIF
138: IF m.compstat = "ON"
139:   SET COMPATIBLE ON
140: ENDIF
141:
142: *
143: *
144: *
145: *
146: *
147: *
148: *
149: *
150: *
151: *
152: *
153: *
154: *
155: *
156: *
157: *

```

_qsfoKQ9MB	m.mutex	VALID	
Function Origin:			
From Platform:	Windows		Record Number: 6
From Screen:	DDENUM,		
Variable:	m.mutex		
Called By:	VALID Clause		
Object Type:	Field		
Snippet Number:	1		

```

158: FUNCTION _qsfoKQ9mb    && m.mutex VALID
159: #REGION 1
160: DO CASE
161:   CASE m.datatype $ "EL"
162:     RETURN m.mutex $ "-"
163:   CASE m.datatype $ "M"
164:     RETURN m.mutex $ "++"
165:   ENDCASE
166: RETURN .F.
167:
168: *
169: *
170: *
171: *
172: *
173: *
174: *
175: *
176: *
177: *
178: *
179: *
180: *
181: *
182: *

```

_qsfoKQ9QC	m.buttons	VALID	
Function Origin:			
From Platform:	Windows		Record Number: 8
From Screen:	DDENUM,		
Variable:	m.buttons		
Called By:	VALID Clause		
Object Type:	Push Button		
Snippet Number:	2		

```

183: FUNCTION _qsfoKQ9qc    && m.buttons VALID
184: #REGION 1
185: DO CASE
186:   CASE m.buttons = 1    && add
187:     IF m.enumadd
188:       APPEND BLANK
189:       GATHER MEMVAR
190:     ENDIF
191:     m.enumadd = .T.
192:     m.neword = 0
193:     DO WHILE id = m.dictid
194:       m.neword = ord
195:       SKIP
196:     ENDDO
197:     SCATTER MEMVAR BLANK
198:     m.ord = m.neword + 1

```

```

199: m.id = m.dictid
200: m.mutex = "-"
201: CUROBJ = OBJNUM(m.mutex)
202: SHOW GETS
203: CASE m.buttons = 2    && ok
204:   IF m.enumadd
205:     APPEND BLANK
206:   ENDIF
207:   mok = .T.
208:   GATHER MEMVAR
209:   CLEAR READ
210: CASE m.buttons = 3    && cancel
211:   mok = .F.
212:   CLEAR READ
213: ENDCASE
214: *: EOF: DDENUM.ac1

```


08/09/94	KBLOAD.SPR	09:40:19
Author's Name Copyright (c) 1994 Company Name Address City, Zip Description: This program was automatically generated by GENSCRN.		

```

1: *
2: *
3: *
4: *
5: *
6: *
7: *
8: *
9: *
10: *
11: *
12: *
13: *
14: *
15: *
16: *
17: *
18: *
19: *
20: *
21: *
22: *
23: *
24: *
25: *
26: *
27: *
28: *
29: *
30: *
31: *
32: *
33: *
34: *
35: *
36: *
37: *
38: *
39: *
40: *
41: *
42: *
43: *
44: *
45: *
46: *
47: *
48: *
49: *
50: *
51: *
52: *
53: *
54: *
55: *
56: *
57: *
58: *
59: *
60: *

```

```

CASE _WINDOWS
REGION 0
REGIONAL m.curarea, m.talkstat, m.compstat
IF SET("TALK") = "ON"
SET TALK OFF
m.talkstat = "ON"
ELSE
m.talkstat = "OFF"
ENDIF
m.compstat = SET("COMPATIBLE")
SET COMPATIBLE FOXPLUS
m.rborder = SET("READBORDER")
SET readborder ON

```

```

Windows Window definitions

```

```

IF NOT WEXIST(" qsf0kqb51")
DEFINE WINDOW qsf0kqb51
AT 0.000 0.000
SIZE 22.333,45.500
TITLE "Knowledge Base Loader"
FONT "Terminal", 8
FLOAT
NOCLOSE
SHADOW
NOMINIMIZE
DOUBLE
COLOR RGB(128,128,128)
MOVE WINDOW _qsf0kqb51 CENTER
ENDIF

```

```

61: *
62: *
63: *
64: *
65: *
66: *
67: *
68: *
69: *
70: *
71: *
72: *
73: *
74: *
75: *
76: *
77: *
78: *
79: *
80: *
81: *
82: *
83: *
84: *
85: *
86: *
87: *
88: *
89: *
90: *
91: *
92: *
93: *
94: *
95: *
96: *
97: *
98: *
99: *
100: *
101: *
102: *
103: *
104: *
105: *
106: *
107: *
108: *
109: *
110: *
111: *
112: *
113: *
114: *
115: *
116: *
117: *

```

```

KBLOAD/Windows Setup Code - SECTION 2

#REGION 1
m.home = CURDIR()
m.driv = m.new
m.src = ""
m.fil = ""
m.ok = .F.
SET DEF TO (m.data)
DEFINE POPUP listdir
PROMPT FILES LIKE *.
SCROLL
MARGIN
MARK ""
ON ERROR m.src = ""

KBLOAD/Windows Screen Layout

#REGION 1
IF WVISIBLE(" qsf0kqb51")
ACTIVATE WINDOW _qsf0kqb51 SAME
ELSE
ACTIVATE WINDOW _qsf0kqb51 NOSHOW
ENDIF
@ 2.500,0.875 GET m.src
SIZE 1.333,32.125
DEFAULT ""
FONT "Terminal", 8
VALID qsf0kqb51()
@ 7.583,1.375 GET m.new
SIZE 1.167,31.750
DEFAULT ""
FONT "Terminal", 8
VALID qsf0kqb51()
DISABLE
@ 9.917,1.000 GET m.dbf
PICTURE "qsf0kqb51"
POPUP listdir
SIZE 1.667,32.625
DEFAULT ""
FONT "Terminal", 8
STYLE ""
WHEN _qsf0kqb51()
VALID _qsf0kqb51()
@ 14.250,34.875 GET m.Load
PICTURE "qsf0kqb51 Load"
SIZE 2.083,7.750,1.083
DEFAULT 1

```

```

118: FONT "Terminal", 8 ;
119: WHEN loadok() ;
120: VALID qsf0kqcbt() ;
121: DISABLE
122: a 17.417,34.875 GET mbuttonc ;
123: PICTURE "a*VT Cancel" ;
124: SIZE 2.250,7.875,1.083 ;
125: DEFAULT 1 ;
126: FONT "Terminal", 8
127: a 1.250,0.750 SAY "Read From Definition file:" ;
128: FONT "Terminal", 8
129: a 6.083,0.750 SAY "Create Files in Temporary directory:" ;
130: FONT "Terminal", 8

```

```

131: IF NOT WVISIBLE("qsf0kqb51")
132:   ACTIVATE WINDOW _qsf0kqb51
133: ENDIF

```

```

134: READ CYCLE MODAL

```

```

135: RELEASE WINDOW _qsf0kqb51

```

```

136: #REGION 0

```

```

137: SET readborder &rborder

```

```

138: IF m.talkstat = "ON"

```

```

139:   SET TALK ON

```

```

140: ENDIF

```

```

141: IF m.compstat = "ON"

```

```

142:   SET COMPATIBLE ON

```

```

143: ENDIF

```

```

144: *

```

```

145: *

```

```

146: *

```

```

147: *

```

```

148: *

```

```

149: *

```

```

150: *

```

```

151: *

```

```

152: *

```

```

153: *

```

```

154: *

```

```

155: *

```

```

156: *

```

```

157: *

```

```

158: *

```

```

159: *

```

```

160: *

```

```

161: *

```

```

162: *

```

```

163: *

```

```

164: *

```

```

165: *

```

```

KBLOAD/Windows Cleanup Code

```

```

166: #REGION 1
167: SET DEFA TO (m.home)
168: ON ERROR
169: * load enable

```

```

--CASE _DOS

```

```

170: #REGION 0
171: REGIONAL m.currarea, m.talkstat, m.compstat

```

```

172: IF SET("TALK") = "ON"

```

```

173:   SET TALK OFF

```

```

174:   m.talkstat = "ON"

```

```

175: ELSE

```

```

176:   m.talkstat = "OFF"

```

```

177: ENDIF

```

```

178: m.compstat = SET("COMPATIBLE")

```

```

179: SET COMPATIBLE FOXPLUS

```

```

180:

```

```

MS-DOS Window definitions

```

```

181: IF NOT WEXIST("qsf0kqci7")
182:   DEFINE WINDOW qsf0kqci7 ;
183:   FROM INT((SROW()-18)/2), INT((SCOL()-55)/2) ;
184:   TO INT((SROW()-18)/2)+1, INT((SCOL()-55)/2)+54 ;
185:   TITLE "Knowledge Base Loader" ;
186:   FLOAT ;
187:   NOCLOSE ;
188:   SHADOW ;
189:   NOMINIMIZE ;
190:   DOUBLE ;
191:   COLOR SCHEME 5
192: ENDIF

```

```

KBLOAD/MS-DOS Setup Code - SECTION 2

```

```

193: #REGION 1
194: m.home = CURDIR()
195: m.driv = m.new
196: m.src = ""
197: m.fil = ""
198: m.ok = .F.
199: SET DEFA TO (m.data)
200: DEFINE POPUP listdir ;
201: PROMPT FILES LIKE *.* ;
202: SCROLL ;
203: MARGIN ;
204: MARK " "
205: ON ERROR m.src = ""

```

```

KBLOAD/MS-DOS Screen Layout

```

```

#REGION 1

```

```

230: IF WVISIBLE(" qsf0kqci7")
231:   ACTIVATE WINDOW _qsf0kqci7 SAME
232: ELSE
233:   ACTIVATE WINDOW _qsf0kqci7 NOSHOWN
234: ENDIF
235: @ 2,1 GET m.src ;
236:   SIZE 1,30 ;
237:   DEFAULT " " ;
238:   VALID _qsf0kqcp2()
239:   SIZE 1,30 ;
240:   DEFAULT " " ;
241:   VALID _qsf0kqcro() ;
242:   DISABLE
243:   @ 7,1 GET m.dbf ;
244:     PICTURE "a8n" ;
245:     POPUP listdir ;
246:     SIZE 9,30 ;
247:     DEFAULT " " ;
248:     WHEN _qsf0kqcu() ;
249:       VALID _qsf0kqwt() ;
250:       COLOR SCHEME 6
251:     @ 13,42 GET m.load ;
252:       PICTURE "a*VT Load" ;
253:       SIZE 1,8,1 ;
254:       DEFAULT " " ;
255:       WHEN loadok() ;
256:         VALID _qsf0kqczg() ;
257:         DISABLE
258:       @ 15,42 GET m.buttonc ;
259:         PICTURE "a*VT Cancel" ;
260:         SIZE 1,8,1 ;
261:         DEFAULT " " ;
262:         @ 1,1 SAY "Read From Definition file:" ;
263:         SIZE 1,26,0
264:       @ 5,1 SAY "Create Files in Temporary directory:" ;
265:         SIZE 1,36,0
266:
267: IF NOT WVISIBLE(" qsf0kqci7")
268:   ACTIVATE WINDOW _qsf0kqci7
269: ENDIF
270:
271: READ CYCLE MODAL
272:
273: RELEASE WINDOW _qsf0kqci7
274:
275: #REGION 0
276: IF m.talkstat = "ON"
277:   SET TALK ON
278: ENDIF
279: IF m.compstat = "ON"
280:   SET COMPATIBLE ON
281: ENDIF
282:
283:
284:
285:
286:
287:
288:
289:
290:

```

```

291: #REGION 1
292: SET DEFA TO (m.home)
293: ON ERROR
294: * load enable
295:
296:
297:
298:
299:
300:
301:
302:
303:
304:
305:
306:
307:
308:
309:
310:
311:
312:
313:
314:
315:
316:
317:
318:
319:
320:
321:
322:
323:
324:
325:
326:
327:
328:
329:
330:
331:
332:
333:
334:
335:
336:
337:
338:
339:
340:
341:
342:
343:
344:
345:
346:
347:
348:
349:
350:
351:
352:
353:
354:
355:
356:

```

```

_qsf0kqbknk
Function Origin:
From Platform: Windows
From Screen: KBLOAD,
Variable: m.src
Called By: VALID Clause
Object Type: Field
Snippet Number: 1
m.src VALID

```

```

FUNCTION _qsf0kqbknk && m.src VALID
#REGION 1
m.src = LOCFILE(m.src,"","Locate Definition File")
=loadok()

```

```

_qsf0kqbt0
Function Origin:
From Platform: Windows
From Screen: KBLOAD,
Variable: m.new
Called By: VALID Clause
Object Type: Field
Snippet Number: 2
m.new VALID

```

```

FUNCTION _qsf0kqbt0 && m.new VALID
#REGION 1
=loadok()

```

```

_qsf0kqc1j
Function Origin:
From Platform: Windows
From Screen: KBLOAD,
Variable: m.dbf
Called By: WHEN Clause
Object Type: List
Snippet Number: 3
m.dbf WHEN

```

```

FUNCTION _qsf0kqc1j && m.dbf WHEN

```

```
357: #REGION 1
358: m.new = PRMBAR("listdir",2)
359: IF FILE(m.new + "\nul")
360: SHOW OBJECT OBJNUM(m.new) ENABLE
361: ELSE
362: SHOW OBJECT OBJNUM(m.new) DISABLE
363: ENDF
364: =loadok()
365:
366:
367:
368:
369:
370:
371:
372:
373:
374:
375:
376:
377:
378:
379:
380:
381:
382:
383:
384:
385:
386:
387:
388:
389:
390:
391:
392:
393:
394:
395:
396:
397:
398:
399:
400:
401:
402:
403:
404:
405:
406:
407:
408:
409:
410:
411:
412:
413:
414:
415:
416:
417:
418:
419:
420:
421:
422:
```

```
Function Origin:
From Platform:
From Screen:
Variable:
Called By:
Object Type:
Snippet Number: 4
```

```
FUNCTION _qsfoqac42 && m.dbf VALID
#REGION 1
=loadok()
```

```
Function Origin:
From Platform:
From Screen:
Variable:
Called By:
Object Type:
Snippet Number: 5
```

```
FUNCTION _qsfoqac6t && m.load VALID
```

```
m.srcbak = m.src
m.valid = checkfile(m.new)
IF m.valid
SHOW GET m.load DISABLE
CUROBJ = OBJNUM(m.dbf)
m.src = m.srcbak
SHOW GETS
RETURN
ENDIF
olderr = ON("error")
ON ERROR RETURN
mrun = m.src + " " + m.new
m.temp = CURDIR()
m.t1 = LOCFILE("rulex","exe","where is file RULEX.EXE")
m.t1 = SUBSTR(m.t1, 1, AT("RULEX.EXE",m.t1) - 1)
SET DEFA TO (m.t1)
RUN /400 rulex &mrun
SET DEFA TO (m.temp)
= popupshow("Working.....")
DO kbltr WITH m.new
= popuphide()
```

```
ON ERROR &olderr
CLEAR READ
```

```
Function Origin:
From Platform:
From Screen:
Variable:
Called By:
Object Type:
Snippet Number: 6
```

```
FUNCTION _qsfoqacp2 && m.src VALID
#REGION 1
m.src = LOCFILE(m.src)
=loadok()
```

```
Function Origin:
From Platform:
From Screen:
Variable:
Called By:
Object Type:
Snippet Number: 7
```

```
FUNCTION _qsfoqacrq && m.new VALID
#REGION 1
=loadok()
```

```
Function Origin:
From Platform:
From Screen:
Variable:
Called By:
Object Type:
Snippet Number: 8
```

```
FUNCTION _qsfoqacua && m.dbf WHEN
#REGION 1
m.new = PRMBAR("listdir",2)
IF FILE(m.new + "\nul")
SHOW OBJECT OBJNUM(m.new) ENABLE
ELSE
SHOW OBJECT OBJNUM(m.new) DISABLE
```

```

489: _ENDIF
490: =loadok()
491: *
492: *
493: *
494: *
495: *
496: *
497: *
498: *
499: *
500: *
501: *
502: *
503: *
504: *
505: *
506: *
507: *
508: *
509: *
510: *
511: *
512: *
513: *
514: *
515: *
516: *
517: *
518: *
519: *
520: *
521: *
522: *
523: *
524: *
525: *
526: *
527: *
528: *
529: *
530: *
531: *
532: *
533: *
534: *
535: *
536: *
537: *
538: *
539: *
540: *
541: *
542: *
543: *
544: *
545: *
546: *
547: *
548: *
549: *
550: *
551: *
552: *
553: *
554: *

```

_QSF0KQCWT m.dbf VALID

Function Origin:

From Platform: MS-DOS Record Number: 13

From Screen: KBLOAD, m.dbf

Variable: VALID Clause

Called By: List

Object Type: 9

Snippet Number:

```

555: PROCEDURE loadok
556: DO CASE
557: CASE DOS
558: m.ok = .T.
559: IF EMPTY(m.src)
560: m.ok = .F.
561: ENDIF
562: m.ok = m.ok .AND. FILE(m.src)
563: m.new = ALLTRIM(m.new)
564: IF EMPTY(m.new)
565: m.ok = .F.
566: ENDIF
567: IF RIGHT(m.new, 1) != "\"
568: m.new = m.new + "\"
569: ENDIF
570: m.d1 = IIF(RIGHT(m.data, 1) != "\" , m.data + "\" , m.data)
571: IF UPPER(FULLPATH(m.new)) == UPPER(FULLPATH(m.d1))
572: m.ok = .F.
573: ENDIF
574: IF IFILE(m.new + "nul")
575: m.ok = .F.
576: ENDIF
577: IF m.ok
578: SHOW OBJECT OBJNUM(m.load) ENABLE
579: ELSE
580: SHOW OBJECT OBJNUM(m.load) DISABLE
581: ENDIF
582: RETURN m.ok
583: CASE WINDOWS
584: m.ok = .T.
585: IF EMPTY(m.src)
586: m.ok = .F.
587: ENDIF
588: m.ok = m.ok .AND. FILE(m.src)
589: m.new = ALLTRIM(m.new)
590: IF EMPTY(m.new)
591: m.ok = .F.
592: ENDIF
593: IF RIGHT(m.new, 1) != "\"
594: m.new = m.new + "\"
595: ENDIF
596: m.d1 = IIF(RIGHT(m.data, 1) != "\" , m.data + "\" , m.data)
597: IF UPPER(FULLPATH(m.new)) == UPPER(FULLPATH(m.d1))
598: m.ok = .F.
599: ENDIF
600: IF IFILE(m.new + "nul")
601: m.ok = .F.
602: ENDIF
603: IF m.ok
604: SHOW OBJECT OBJNUM(m.load) ENABLE
605: ELSE
606: SHOW OBJECT OBJNUM(m.load) DISABLE
607: ENDIF
608: RETURN m.ok
609: ENDCASE
610: *
611: *
612: *
613: *
614: *
615: *
616: *
617: *
618: *
619: *
620: *

```

_QSF0KQCG m.load VALID

Function Origin:

From Platform: MS-DOS Record Number: 14

From Screen: KBLOAD, m.load

Variable: VALID Clause

Called By: Push Button

Object Type: 10

Snippet Number:

```

525: FUNCTION _qsf0kqczg      && m.load VALID
526: #REGION 1
527: mrun = m.src + " " + m.new
528: m.temp = CURDIR()
529: m.t1 = LOCFILE("rulex.exe")
530: m.t1 = SUBSTR(m.t1, 1, AT("RULEX.EXE", m.t1) - 1)
531: SET DEFA TO (m.t1)
532: RUN /400 rulex &mrun
533: SET DEFA TO (m.temp)
534: DO kbldr WITH m.new
535: *
536: *
537: *
538: *
539: *
540: *
541: *
542: *
543: *
544: *
545: *
546: *
547: *
548: *
549: *
550: *
551: *
552: *
553: *
554: *

```

KBLOAD/MS-DOS Supporting Procedures and Functions

KBLOAD Function LOADOK

KBLOAD Function CHECKFILE

FUNCTION checkfile

```

621:  PARAMETER m.new
622:  PRIVATE m.exist, m.fload
623:  m.exist = .F.
624:  DO CASE
625:  CASE FILE(m.new + "area.dbf")
626:    m.exist = .T.
627:  CASE FILE(m.new + "rule.dbf")
628:    m.exist = .T.
629:  CASE FILE(m.new + "premise.dbf")
630:    m.exist = .T.
631:  CASE FILE(m.new + "fact.dbf")
632:    m.exist = .T.
633:  CASE FILE(m.new + "action.dbf")
634:    m.exist = .T.
635:  CASE FILE(m.new + "disease.dbf")
636:    m.exist = .T.
637:  CASE FILE(m.new + "dict.dbf")
638:    m.exist = .T.
639:  CASE FILE(m.new + "val.dbf")
640:    m.exist = .T.
641:  CASE FILE(m.new + "enum.dbf")
642:    m.exist = .T.
643:  ENDCASE
644:  m.fload = .T.
645:  IF m.exist
646:    m.fload = yesno("Database in " + m.new + " already exist, overwrit
=> e & delete it?", "YES", "NO")
647:  ENDIF
648:  RETURN m.fload
649:
650:  *: EOF: KBLOAD.ac1

```

REPORT DOCUMENTATION PAGE			Form Approved OMB No. 0704-0188	
Public reporting burden for this collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503.				
1. AGENCY USE ONLY (Leave blank)		2. REPORT DATE JUNE 1996		3. REPORT TYPE AND DATE COVERED FINAL JAN 1994-1995
4. TITLE AND SUBTITLE TECHNICAL MANUAL FOR THE NAVY COMPUTER ASSISTED MEDICAL DIAGNOSIS KNOWLEDGE BASE EDITOR (NCAMD-KBE), VERSION 1.0			5. FUNDING NUMBERS Program Element: 63706N Work Unit Number: M0095.005-6103	
6. AUTHOR(S) HOA L. LY AND DIANNA M. PEARSALL				
7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) Naval Health Research Center P. O. Box 85122 San Diego, CA 92186-5122			8. PERFORMING ORGANIZATION TECHNICAL DOCUMENT 96-4D	
9. SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS(ES) Naval Medical Research and Development Command National Naval Medical Center Building 1, Tower 2 Bethesda, MD 20889-5044			10. SPONSORING/MONITORING AGENCY REPORT NUMBER	
11. SUPPLEMENTARY NOTES				
12a. DISTRIBUTION/AVAILABILITY STATEMENT Approved for public release; distribution is unlimited.			12b. DISTRIBUTION CODE	
13. ABSTRACT (Maximum 200 words) This technical manual contains the information on the program source code, data elements, and the database structure needed to maintain the Navy Computer Assisted Medical Diagnosis Knowledge Base Editor (NCAMD-KBE). This documentation was created using the FOXDOC version 2.5a program.				
14. SUBJECT TERMS Computer diagnosis Technical Manual			15. NUMBER OF PAGES 181	
			16. PRICE CODE	
17. SECURITY CLASSIFICATION OF REPORT Unclassified	18. SECURITY CLASSIFICATION OF THIS PAGE Unclassified	19. SECURITY CLASSIFICATION OF ABSTRACT Unclassified	20. LIMITATION OF ABSTRACT Unlimited	